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# New York State Museum

FREDERICK J. H. MERRILL Director

Bulletin 66  
MISCELLANEOUS 2

## INDEX TO PUBLICATIONS

OF THE

NEW YORK STATE NATURAL HISTORY SURVEY

AND

NEW YORK STATE MUSEUM

1837-1902

ALSO INCLUDING OTHER NEW YORK PUBLICATIONS ON RELATED SUBJECTS

BY

MARY ELLIS

*Indexer University of the State of New York*

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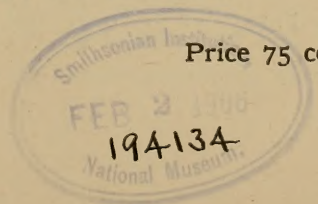
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# New York State Museum

FREDERICK J. H. MERRILL Director

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## INDEX TO PUBLICATIONS

OF THE

NEW YORK STATE NATURAL HISTORY SURVEY

AND

NEW YORK STATE MUSEUM

1837-1902

### PREFACE

The New York State Museum was established at the time of the final arrangement of the collections of the Natural History Survey of New York in 1843. An act of the Legislature placing the collections in the custody of the Regents of the University was passed May 10, 1845, and the first official report was published in 1848. In 1870 a law was passed establishing the museum on a permanent basis. Till 1871 the museum was styled the State Cabinet of Natural History and appears thus on the titlepages of the early reports. For a description of the Natural History Survey of New York and the origin of the State Museum, see Museum bulletin 19, p. 240-45, Museum bulletin 56, p. 5-10, University handbook 5, also Subject index under Natural History Survey, p. 442.

The publications indexed are those of the New York State Museum from 1848-1902 inclusive; also the annual reports of the early Natural History Survey, 1837-41; the final quarto reports constituting the *Natural History of New York* published 1842-94; papers on geology and entomology in the transactions of the

New York State Agricultural Society, of the Albany Institute and in Regents reports; and entomological papers in reports of the Forest, Fish and Game Commission. Publications which will bear an imprint date later than 1902 are referred to as *In press*, or *In preparation*, and are not fully indexed.

The later museum reports have two sets of paging, the first being distinguished by the letter r prefixed to page numbers of the director's report. Dates covered by a report are in curves, followed by dates of publication. Volume and page numbers are separated by a colon; e.g. 3:141 means volume 3, page 141.

For explanatory matter referring particularly to the subject index, see p. 304.

In the preparation of this bulletin, the indexer has received invaluable assistance from the State Museum staff, to whom cordial acknowledgments are made.

MARY ELLIS

#### ABBREVIATIONS

New York State Museum. Publications. 1848-1902.

Reports .....	Mus. rep.
Bulletins .....	Mus. bul.
Memoirs .....	Mus. mem.
Geologist's reports .....	Geol. rep.
Paleontologist's reports .....	Pal. rep.
Entomologist's reports .....	Ent. rep.
Botanist's reports .....	Bot. rep.

Natural History Survey. Annual reports. 1837-41.

Mineralogy .....	Min. rep.
Geology .....	Geol. rep. 1st dist.
	" 2d "
	" 3d "
	" 4th "
Paleontology .....	Pal. rep.

Natural History of New York. Final reports. 1842-94.

Zoology .....	Zool. N. Y.
Botany .....	Bot. N. Y.
Mineralogy .....	Min. N. Y.
Geology .....	Geol. N. Y.
Agriculture .....	Ag. N. Y.
Paleontology .....	Pal. N. Y.

Illustrations of Devonian Fossils.....Ill. Dev. Foss.

New York State Agricultural Society. Transactions..Ag. Soc. Trans.

Albany Institute. Transactions.....Alb. Inst. Trans.

## LIST OF PUBLICATIONS

Any of the University publications will be sold in lots of 10 or more at 20% discount. When sale copies are exhausted, the price for the few reserve copies is advanced to that charged by secondhand booksellers to limit their distribution to cases of special need. Such prices are inclosed in brackets.

All publications are in paper covers, unless binding is specified.

Museum annual reports for 1847-1900. 1848-1902.

Price for all in print to 1892, 50 cents a volume, 75 cents in cloth; 1892-date, 75 cents, cloth.

These reports are made up of the reports of the director, geologist, paleontologist, botanist and entomologist, and museum bulletins and memoirs, issued as advance sections of the reports.

1 (for 1847) 1848. 33+39+15 p. O.

*Contents:* Report of Chancellor, p. 3-4; Account, p. 5; Donations 1847, p.6; Catalogue of Mammalia and Birds Ap. 11, 1818, p.7-20; Beck, L. C. Catalogue of Specimens in the Mineralogical Department of the Geological Survey, p.21-33; Hall, James. Catalogue of Specimens in the Geological Department of the Geological Survey, 39p.; Hall, James. Catalogue of Specimens in the Palaeontological Department of the Geological Survey, 15p.

2 (for 1848) 1849. 91 p. 5 pl. (lith.) O.

*Contents:* Report of Chancellor, p. 9-12; Account, p. 13-14; Catalogue of Quadrupeds, Birds, Reptiles, Fishes etc. added Ap. 11, 1848 to Jan. 1, 1849, p.15-23; Fitch, Asa. Catalogue of Insects Dec. 1, 1848, p.25-39; Torrey, John. Catalogue of Plants of the State of New York, of which Specimens are preserved in the Cabinet at Albany, p.41-64; List of Minerals, Geological Specimens and Fossils added 1847 and 1848, p.65-70; Catalogue of the historical and antiquarian collection, p.71-79; Morgan, L. H. Communications from, p. 81-91; Ground Plans and Dimensions of Several Trench Inclosures in Western New York or Fort Hills, 5 pl.

3 (for 1849) 1850. 175 p. illus. 28 pl. (lith.) O.

*Contents:* Report of Chancellor, p. 9-12; Account, p. 14-16; Catalogue of Quadrupeds, Birds, Reptiles, Amphibians, Fishes etc. added Jan. 1, 1849 to Jan. 1, 1850, p.17-26; List of Minerals, Geological Specimens and Fossils added Jan. 1, 1849 to Jan. 1, 1850, p.27-46; Additions to the Historical and Antiquarian Collection, Jan. 1, 1849 to Jan. 1, 1850, p.47-60; Catalogue of Reptiles and Amphibians Jan. 1, 1850, p.61-64; Morgan, L. H. Report upon Articles Furnished the Indian Collection, p.65-97, 18 pl.; Hough, F. B. Ancient Remains of Art in Jefferson and St

Lawrence Counties, p.99-105, 5 pl.; Beck, L. C. Mineralogy of New York, p.107-51; References to Essays and Writings on the Natural History of New York, p.153-56; Index to Volumes in the State Cabinet containing the Plants of New York, p.157-66; Hall, James. New Species of Fossils from the Trenton Limestones, p.167-75. 5 pl.

3 *rev. ed.* (for 1849) 1850. 183p. 28 pl. (lith.) O.

*Contents:* Report of Chancellor, p.9-12; Catalogue of Quadrupeds, Birds, Reptiles, Amphibians, Fishes etc. added Jan. 1, 1849 to Jan. 1, 1850, p.15-24; Catalogue of Reptiles and Amphibians Jan. 1, 1850, p.25-28; List of Minerals, Geological Specimens and Fossils added Jan. 1, 1849 to Jan. 1, 1850, p.29-48; Additions to the Historical and Antiquarian Collection Jan. 1, 1849 to Jan. 1, 1850, p.49-62; Morgan, L. H. Report upon Articles Furnished to the Indian Collection, p.63-95. 18pl.; Hough, F. B. Ancient Remains of Art in Jefferson and St Lawrence Counties, p. 99-105. 5 pl.; Beck, L. C. Mineralogy of New York, p. 109-53; References to Essays and Writings on the Natural History of New York, p.155-60; Index to Volumes in the State Cabinet containing the Plants of New York, p.161-72; Hall, James. New Species of Fossils from the Trenton Limestones, p. 173-83. 5 pl.

4 (for 1850) 1851. 146 p. illus. 5 pl. (lith.) O.

*Contents:* Report of Chancellor, p. 9-12; Account, p. 14-16; Catalogue of Quadrupeds, Birds, Reptiles, Amphibians etc. added Jan. 1, 1850 to Jan. 1, 1851, p.17-41; Fitch, Asa. Catalogue of Insects collected and arranged, p.43-69; Botany, p.71; List of Minerals, Geological Specimens and Fossils added Jan. 1, 1850 to Jan. 1, 1851, p.73-90; Additions to the Historical and Antiquarian Collection Jan. 1, 1850 to Jan. 1, 1851, p.91-101; Hough, F. B. Notices of Ancient Remains of Art in Jefferson and St Lawrence Counties, p.103-9. 5 pl.; Salisbury, J. H. Analysis of a Specimen of Hematitic Iron Ore, p.111; References to various Writings relating to the Natural History of New York that have appeared during the Year, p.113-16; Hall, James. Catalogue of Specimens of the Rocks and Fossils in the Gray Sandstone, Medina Sandstone, Clinton Group, Niagara Group, Onondaga Salt Group, and a Part of the Water-lime Group, p.117-42; Memorandum of Drawers and Boxes of Fossils, p.143-46.

5 (for 1851) 1852. 117p. illus. 22pl. (lith.) O.

*Contents:* Report of Chancellor, p. 9-10; Account, p. 12-14; Catalogue of Quadrupeds, Birds, Reptiles, Amphibians, Fishes etc. added Jan. 1, 1851 to Jan. 1, 1852, p.15-34. 2 pl.; Catalogue of Minerals, Geological Specimens and Fossils added Jan. 1, 1851 to Jan. 1, 1852, p.35-43; Additions to the Historical and Antiquarian Collection Jan. 1, 1851 to Jan. 1, 1852, p.45-54; References to various Writings relating to the Natural History of New York that have appeared during 1851, p.55-57; Meriam, E. Description of the Means employed to Remove the Rocks at Hellgate by Submarine Engineering, p.59-64; Materials belonging to the State, which have been used in Publishing the Natural History and the Annual Reports of the Regents received since Feb. 12, 1851, p.65-66; Morgan, L. H. Report on the Fabrics, Inventions, Implements and Utensils of the Iroquois, made Jan. 22, 1851, p.67-117. 20 pl.

## 6 (for 1852) 1853. 35 p. O.

*Contents:* Report of Chancellor, p. 7-8; Gebhard, John, jr. Statement and Proposal of, p.9-11; Catalogue of the Cabinet of Fossils of John Gebhard jr, p.12-13; Account, p.14-15; Catalogue of Quadrapeds, Birds, Reptiles, Amphibians etc. added Jan. 1, 1852 to Jan. 1, 1853, p.17-24; Catalogue of Minerals, Geological Specimens and Fossils added Jan. 1, 1852 to Jan. 1, 1853, p.25-28; Fossils which were Part of Gebhard Collection delivered by Hall to the Curator of the State Cabinet, p.29-30; Miscellaneous, p.31-32; Additions to the Historical and Antiquarian Collection Jan. 1, 1852 to Jan. 1, 1853, p.33-35.

## 7 (for 1853) 1854. 128p. illus. 2pl. (lith.) O.

*Contents:* Report of Chancellor, p.7-9; Account, p.10-11; Catalogue of Quadrapeds, Birds, Reptiles, Amphibians, Fishes etc. added Jan. 1, 1853 to Jan. 1, 1854, p.13-26; Catalogue of Mollusca, Crustacea, etc. added Jan. 1, 1853 to Jan. 1, 1854, p.27-42; Additions to the Botanical Department Jan. 1, 1853 to Jan. 1, 1854, p.43-50; List of Minerals, Geological Specimens and Fossils added Jan. 1, 1853 to Jan. 1, 1854, p.51-65; Additions to the Historical and Antiquarian Collection Jan. 1, 1853 to Jan. 1, 1854, p.67-72; Catalogue of Indian Relics, p.73-77; Cook, G. H. On the Nature of Specimens of Salt and Salt Water presented by him with an Analysis, p.79-93; Baird, S. F. On the Serpents of New York, p.95-124, 2pl.; Order of Publication of the Volumes of Natural History of New York, p.125; Materials to be used in Completing the Publication of the Natural History, p.127.

## 8 (for 1854) 1855. 69p. 1pl. (lith.) O.

*Contents:* Report of Chancellor, p. 7-8; Account, p. 9-10; Catalogue of Quadrapeds, Birds, Reptiles, Fishes etc. added Jan. 1, 1854 to Jan. 1, 1855, p.13-22; List of Minerals, Geological Specimens and Fossils added Jan. 1, 1854 to Jan. 1, 1855, p.23-31; Additions to the Historical and Antiquarian Collection Jan. 1, 1854 to Jan. 1, 1855, p.33-39; Materials to be used in Completing the Publication of the Natural History, p.41-44; Miscellaneous, p. 45-48; DeKay, J. E. Catalogue of the Fishes Inhabiting the State of New York, p. 49-69.

## 9 (for 1855) 1856. 64 p. illus. O.

*Contents:* Report of Chancellor, p.7-8; Account, p.9; Catalogue of Birds, Reptiles, Amphibians, Fishes and Shells added Jan. 1, 1855 to Jan. 1, 1856, p.11-38; List of Minerals, Geological Specimens and Fossils added Jan. 1, 1855 to Jan. 1, 1856, p.39-48; Additions to the Historical and Antiquarian Collection Jan. 1, 1855 to Jan. 1, 1856, p.49-60; Materials to be used in Completing the Publication of the Paleontology, p.61-63.

## 10 (for 1856) 1857. 190p. illus. O.

*Contents:* Report of Chancellor, p.7-8; Account, p.9; Addresses delivered at the Inauguration of the State Geological Hall, p.11-28; Catalogue of Fossils collected by Jewett, p.29-37; Hall, James. Descriptions of Palaeozoic Fossils, p.39-180; Hall, James. On the Genus *Tellinomya* and Allied Genera, p. 181-86; Miscellaneous, p. 187-90.

## 11 (for 1857) 1858. 44 p. O.

*Contents:* Report of Chancellor, p. 7-9; Account, p. 10; Catalogue of Geological Specimens from England, p.11-36; Catalogue of Shells, p.37-42; Catalogue of Fossils, p.43; Miscellaneous Contributions, p.44.

## 12 (for 1858) 1859. 111 p. illus. O.

*Contents:* Report of Chancellor, p.3-4; Account, p.5; Hall, James. Contributions to the Palaeontology of New York, p.7-96, 110; Donations and Purchases during 1858, p.97-109; Note on the genus Ambonychia, p.110.

## 13 (for 1859) 1860. 128 p. illus. 24 pl. (lith.) map. O.

*Contents:* Report of Chancellor, p. 5-6; Account, p. 7-8; Catalogue of Mammalia, Birds, Reptiles and Fishes added Jan. 1, 1859 to Jan. 1, 1860, p.11-14; List of Deficiencies in Mammalia, Birds, Reptiles and Amphibia Inhabiting the State, p.15-16; Additions to the Cabinet, principally Fossils, p.17-18; List of Geological and Mineralogical Specimens donated by T. A. Cheney, p.19; Donations to the Historical and Antiquarian Collection from T. A. Cheney, p.20; Catalogue of the Reigen Collection of Mazatlan Mollusca presented by P. P. Carpenter, p.21-36; Cheney, T. A. Ancient Monuments in Western New York, p.37-52. 24 pl.; Hall, James. Contributions to Palaeontology, 1858 and 1859, p.53-125; Supplementary Note on Palaeontology of New York v.3, p.126-28.

## 14 (for 1860) 1861. 109p. 20pl. (lith.) O.

*Contents:* Report of Chancellor, p. 7-8; Account, p. 9-10; Catalogue of Additions Jan. 1, 1860 to Jan. 1, 1861, p.13-15; Lincklaen, Ledyard. Guide to the Geology of New York and to the State Geological Cabinet, p.17-85, 20 pl.; Hall, James. Contributions to the Palaeontology of New York, p. 87-110.

## 15 (for 1861) 1862. 198p. illus. 11pl. (lith.) O.

*Contents:* Report of Chancellor, p. 7; Account, p. 9; Donations Jan. 1, 1861 to Jan. 1, 1862, p.13; Catalogue of Shells from John G. Anthony, p.15-21; Catalogue of Shells contributed from the Duplicates collected by the Exploring Expedition by Prof. Henry, p.23-25; Hall, James. Contributions to Palaeontology, p.27-197. 11 pl.; Jewett, Ezekiel. Letter regarding Fossils of the Chemung group, p.198.

## 16 (for 1862) 1863. 226p. illus. 16pl. (lith.) O.

*Contents:* Report of Chancellor, p.7; Account, p.9; Donations 1862, p.13-14; Catalogue of Collections made by the Curator 1862, p.15; Danker, H. A. List of Birds of New York noticed in Maine June 1862, p.15-16; Hall, James. Contributions to Palaeontology, p.17-226. 16 pl.; Bruyas, Jacques. Radical Words of the Mohawk Language, 123 p.

## 17 (for 1863) 1864. 60 p. O.

*Contents:* Report of Chancellor, p.5-6; Report of Secretary of Regents, p.9-11; List of Deficiencies, p.12-19; Donations 1863, p.20-21; Catalogue of Additions made by the Curator 1863, p.22-23; Additions 1863 acquired by Purchase, p.23; Clinton, G. W. Plants of Buffalo and its Vicinity, p.24-35; Meteorological Observations, p.36-45; Annual Meteorological Synopsis for 1863, p.46-49; Hall, James. Contributions to the Palaeontology of New York, p.50-60.

## 18 (for 1864) 1865. 231p. illus. 2pl. (phot.) O.

*Contents:* Report of Chancellor, p. 5-7; Additions 1864, p. 11-16; Ward, H. A. Wadsworth Gallery of Casts of Fossil Animals, p. 17-52. 2 pl.; Paine, J. A. Catalogue of Plants found in Oneida County and Vicinity, p. 53-192; Peck, C. H. Catalogue of Mosses, p. 193-96; Clinton, G. W. Flora of the State, p. 197-205; Results of Meteorological Observations, p. 207-31.

## 19 (for 1865) 1866. 80 p. O.

*Contents:* Report of Chancellor, p. 5-7; Special Report of the Regents in Relation to the State Cabinet of Natural History, p. 8-32; Account, p. 33; Additions 1865, p. 39-41; Peck, C. H. List of Mosses, p. 42-70; List of Plants for State Herbarium collected by H. B. Lord, p. 71; Clinton, G. W. Flora of the State, p. 72-80.

## 20 (for 1866) 1867. 410p. illus. 21pl. (lith.) O.

*Contents:* Report of Chancellor, p. 5-8; Account, p. 11; Additions 1866, p. 15-18; Catalogue of Shells presented by Smithsonian Institution, p. 19-54; List of Specimens in the Economic Collection, p. 55-57; Catalogue of Books in the Library, p. 59-61; Wilson, W. D. Local Climatology, p. 63-106; Meteorological Observations, p. 107-40; Whitfield, R. P. Observations on the Internal Appendages of the Genus *Atrypa*, p. 141-44. 1 pl.; Notice of v. 4 of the Palaeontology of New York, p. 145-68; Hall, James. Introduction to the Study of the Graptolitidae, p. 169-239; Hall, James. Contributions to Palaeontology, p. 240-401. 16 pl.; Hall, James. Notes upon the Geology of some Parts of Minnesota; Note upon the Structure of the Mountain Region in the Northern Part of Georgia and Alabama, and the Adjacent Parts of Tennessee; Note upon the Geological Relations of the Oil-bearing Strata of Canada West; Peck, C. H. Flora of the State, p. 403-10.

<sup>b</sup>20 rev. ed. (for 1866) 1868; issued 1870. 447p. illus. 23pl. (lith.) Q.

*Contents:* Report of Chancellor, p. 9-12; Account, p. 15; Additions 1866, p. 17-20; Catalogues of Shells presented by Smithsonian Institution, p. 21-60; List of Specimens in Economic Collection, p. 61-63; Catalogue of Books 1866, p. 64-66; Wilson, W. D. Local Climatology, p. 67-106; Results of Meteorological Observations, p. 107-41; Peters, C. H. F. Longitude of Western Boundary Line of State of New York, p. 143-57; Peck, C. H. Flora of the State, p. 159-66; Whitfield, R. P. Observations on the Internal Appendages of the Genus *Atrypa*, p. 167-72. 1 pl.; Notice of v. 4 of Palaeontology of New York, p. 173-99; Hall, James. Introduction to the Study of the Graptolitidae, p. 201-75. 4 pl.; Hall, James. Contributions to Palaeontology, p. 277-345; Hall, James. New or Little Known Species of Fossils from Rocks of the Age of the Niagara Group, p. 347-438. 17 pl.

## 21 (for 1867) 1871. 7+190p. illus. 9pl. (phot.) 4 maps. O.

*Contents:* Report of Chancellor, pref. p. 5-6; Account, pref. p. 7; Report of Curator, p. 5-12; Additions 1867, p. 13-19; Schedule of Contents of

<sup>a</sup>Titles of these three papers appear in the table of contents, but the papers were never published, except the first which was printed in the Transactions of the American Philosophical Society. 1869. 13:329-41.

<sup>b</sup>300 copies printed.

Pickett Collection, p. 20-21; Report of Botanist, p. 23-24; Morgan, L. H. Stone and Bone Implements of the Arickarees, p. 25-46. 6 pl.; Hunt, T. S. On the Mineralogy of the Laurentian Limestones of North America, p. 47-98; Hall, James. Cohoes Mastodon, p. 99-148. 2 pl. 4 maps; Index to Reports 1-20 Exclusive of Geologic and Palaeontologic Papers, p. 149-90.

22 (for 1868) 1869. 7+113 p. map. O.

*Contents:* Report of Chancellor, pref. p. 5; Account, pref. p. 6; Report of Curator, p. 1-7; Additions 1868, p. 9-16; Aldrich, T. H. Partial List of Shells found near Troy, N. Y., p. 17-24; Report of Botanist, p. 25-106; Merriam, C. L. Meteorological Report, p. 107-8; Hough, F. B. Early Observations upon Magnetic Variations, p. 109-13.

23 (for 1869) 1873. 9+252p. 14pl. (lith.) O.

*Contents:* Report of Chancellor, pref. p. 7-8; Account, pref. p. 9; Report of Curator, p. 5-15; Additions 1869, p. 17-26; Report of Botanist, p. 27-135. 6 pl.; Lintner, J. A. Entomological Contributions, p. 137-216. 2 pl.; Speyer, A. On *Cucullia intermedia* n. sp. and *C. lucifuga* W. V., p. 217-22; Hall, James & Whitfield, R. P. Descriptions of Devonian Fossils, p. 223-43. 4 pl.; Hall, James. New or Imperfectly Known Forms among the Brachiopoda, p. 244-47. 2 pl.; Hall, James. Reply to a Note on a Question of Priority, p. 248-52.

24 (for 1870) 1872. 7+232p. 9pl. (lith.) O.

*Contents:* Report of Chancellor, pref. p. 5; Account, pref. p. 7; Report of Director, p. 5-16; Additions 1870, p. 17-32; List of Mounted Fishes, p. 33-37; List of Fishes Received from the Smithsonian Institution in 1865, p. 39-40; Report of Botanist, p. 41-108. 4 pl.; Lintner, J. A. Entomological Contributions no. 2, p. 109-70; Colvin, Verplanck. Ascent of Mt Seward and its Barometrical Measurement, p. 171-80. 1 pl.; Hall, James & Whitfield, R. P. New Species of Fossils from the Vicinity of Louisville, Kentucky, and the Falls of the Ohio, p. 181-200a. 5 pl. in 27th rep.; Hall, James & Whitfield, R. P. Some Peculiar Impressions in Sandstone of Chemung Group, p. 201-4; Hall, James. New Species of Crinoidea and other Fossils from Strata of the Age of the Hudson River Group and Trenton Limestone, p. 205-24. 3 pl.; Hall, James. New Species of Fossils from the Hudson River Group in the Vicinity of Cincinnati, Ohio, p. 225-32. 1 pl.

25 (for 1871) 1873. 7+123p. 2pl. (lith.) O.

*Contents:* Report of Chancellor, pref. p. 7; Report of Director, p. 5-13; Additions 1871, p. 15-26; Contents of Gebhard Collection, p. 27-33; Long Island Mollusca presented, p. 35-38; Catalogue of European Shells presented by the Smithsonian Institution in 1869, p. 39-55; Report of Botanist, p. 57-123. 2 pl.

26 (for 1872) 1874. 6+192 p. illus. O.

*Contents:* Report of Chancellor, pref. p. 5-6; Report of Director, p. 5-15; Additions 1872, p. 17-25; List of Iron Ores in Economic Collection, p. 27-30; Record of Borings of Gardner Oil Well no. 3 at East Shamburg, Pennsylvania, p. 31-33; Report of Botanist, p. 35-91; Hall, James. Descriptions of Bryozoa and Corals of the Lower Helderberg Group, p. 93-116; Lintner, J. A. Entomological Contributions no. 3, p. 117-92.

27 (for 1873) 1875. 7+148p. 7pl. (lith.) map. O.

*Contents:* Report of Chancellor, pref. p. 7; Report of Director, p. 5-21; Additions 1873, p.23-40; List of Rock Specimens from Cumberland, Eng. p.41-42; List of Land and Fresh Water Shells presented by T. H. Aldrich, p. 43-46; List of Gould types of Mollusca in Museum Collection, p. 47-55; List of Building Stones in Economic Collection, p.57-71; Report of Botanist, p. 73-116, 2 pl.; Hall, James. The Niagara and Lower Helderberg Groups; their Relations and Geographical Distribution, p. 117-31; Hall, James. Descriptions of New Species of Goniatitidae, p.132-36; Lintner, J. A. Entomological Contributions, p.137-48.

28 (for 1874) 1879. 7+210p. 37pl. (lith.) O. (State Museum ed.)

*Contents:* Report of Chancellor, pref. p. 7; Report of Director, p. 5-16; Additions 1874, p.17-30; Report of Botanist, p.31-88, 2 pl.; Walcott, C. D. Discovery of the Remains of the Natatory and Branchial Appendages of Trilobites, p. 89-92; Walcott, C. D. New Species of Fossils from the Trenton Limestone, p. 93-97; Hall, James. Fauna of the Niagara Group in Central Indiana, p. 99-203, 32 pl.; Some Remarkable Crinoidal Forms from the Lower Helderberg Group, p. 205-10, 3 pl.

29 (for 1875) 1878. 82p. 2pl. (lith.) O.

*Contents:* Report of Chancellor, p. 7; Report of Director, p. 11-18; Additions 1875, p. 19-28; Report of Botanist, p. 29-82, 2pl.

30 (for 1876) 1878. 7+256 p. 4 pl. (lith.) O.

*Contents:* Report of Chancellor, pref. p. 7; Report of Director, p. 5-12; Additions 1876, p. 13-22; Report of Botanist, p. 23-78, 2 pl.; Leeds, A. R. Lithology of the Adirondacks, p. 79-109; Hall, J. W. & Fritz-Gaertner, R. On the Structure of *Astraeospongia meniscus*, p.111-16, 1 pl.; Lintner, J. A. Entomological Contributions no. 4, p.117-254; Hall, James. Genus *Plumalina*, p.255-56, 1 pl.

31 (for 1877) 1879. 6+78p. 1pl. (lith.) O.

*Contents:* Report of Chancellor, pref. p.4; Report of Director, p.5-10; Additions 1877, p. 11-17; Report of Botanist, p. 19-60; Walcott, C. D. Some Sections of Trilobites from the Trenton Limestone, p. 61-65, 1 pl.; Walcott, C. D. Eggs of the Trilobite, p.66-67; Walcott, C. D. New Species of Fossils from the Chazy and Trenton Limestones, p.68-71; Fritz-Gaertner, R. *Phlogopyte*, p. 72-78.

32 (for 1878) 1879. 7+176 p. O.

*Contents:* Report of Chancellor, pref. p.7; Report of Director, p.5-9; Additions 1878, p. 10-16; Report of Botanist, p. 17-72; Peck, C. H. Mosses of Caledonia Creek, p. 73-74; Lintner, J. A. Insects and Other Animal Forms of Caledonia Creek, N. Y., p. 75-99; Webster, H. E. Annelida chaetopoda of New Jersey, p.101-28; Walcott, C. D. New Species of Fossils from the Calcareous Formation, p. 129-31; Hall, C. E. Laurentian Magnetic Iron Ore Deposits in Northern New York, p. 133-40; Hall, James. Bryozoa and Corals of the Lower Helderberg Group, p. 141-76.

33 (for 1879) 1880. 49p. 2pl. (lith.) O.

*Contents:* Report of Chancellor, p. 3-4; Report of Director, p. 5-10; Report of Botanist, p. 11-49, 2 pl.

## 34 (for 1880) 1881. 58p. 4pl. (lith.) O.

*Contents:* Report of Chancellor, p. 3-4; Report of Director, p. 5-12; Additions 1880, p.13-19; Additions to the Library 1880, p.20-23; Report of Botanist, p. 24-58. 4 pl.

## 35 (for 1881) 1884. 481 p. 30 pl. (lith.) map. O.

*Contents:* Report of Chancellor, p. 5-6; Report of Director, p. 7-11; Additions 1881, p.13-18; Distribution of Duplicate Fossils and Minerals, p.19-27; List of Species in each of Ten Duplicate Collections of Fossils for High Schools and Academies, p.29-32; List of Species and Specimens of Cephalopoda, p.33-66; Crinoidea from Tentaculite Limestone, p.67; List of Unionidae of the Gould Collection, p.68-81; List of Unionidae of the New York State Collection, p.82-83; List of Unionidae of the General Collection, p.84-101; List of Land Shells of the New York State Collection, p.102-6; List of Corbiculadae of the New York State Collection, p.107; List of Land Shells of the United States in the Museum Collection, p.108-11; List of Shells presented in 1875 by Dr James Lewis, p.112-17; Statistics Relating to the State Museum, as compiled from the Report made to the Tenth Census of the United States Jan. 4, 1882, p. 118-19; Hall, J. W. Machinery and Methods of Cutting Specimens of Rocks and Fossils, p.121-24. 2 pl.; Report of Botanist, p.125-64; De Tarr, D. N. List of the Rhizopoda found in the Vicinity of Albany, N. Y., p. 165-67; Simpson, G. B. Anatomy and Physiology of Anodonta fluviatilis, p.169-91, 11 pl.; Wright, S. H. Aboriginal Work on Bluff Point, Yates co. N. Y., p. 193-94. 1 pl.; Wright, B. H. Geology of Yates County, N. Y., p. 195-206. 3 pl.; Walcott, C. D. New Species of Fossils from the Trenton Group of New York, p. 207-14. 1 pl.; Hall, James. Lamellibranchiate Shells of the Upper Helderberg, Hamilton and Chemung Groups, p. 215-406g; Hall, James. Fossil Corals from the Niagara and Upper Helderberg Group, p. 407-64. 8 pl; Hall, James. Species of Fossil Reticulate Sponges Constituting the Family Dictyospongiadae, p.465-82. 4pl.

## 36 (for 1882) 1883. 94p. 6pl. (lith.) O.

*Contents:* Report of Chancellor, p. 7-8; Report of Director, p. 9-15; Additions 1882, p. 17-20; List of Niagara fossils from Waldron, Indiana, p.21-25; List of Genera and Species of Brachiopoda of which Sections have been prepared for the Microscope, p.26; Report of Botanist, p.27-49; Beecher, C. E. Some Abnormal and Pathologic Forms of Fresh-water Shells from the Vicinity of Albany, N. Y., p. 51-55. 2 pl.; Hall, James. Bryozoa of the Hamilton Group, p. 57-72; Hall, James. On the Structure of the Shell in the Genus Orthis, p. 73-75. 2 pl.; Hall, James. New Species of Stylonurus from the Catskill Group, p. 76-77. 1 pl.; Beecher, C. E. List of Species of Fossils from an Exposure of Utica Slate and Associated Rocks within the Limits of the City of Albany, p.78; Murray, David, *comp.* Catalogue of the Published Works of James Hall, p. 79-94; Illustration of Cryptozoön, pl.6.

## 37 (for 1883) 1884. 68 p. O.

*Contents:* Report of Vice-chancellor, p. 7-9; Act to regulate the State Museum and the Publication of the Palaeontology of the State, p. 11-12; Contract between the State of New York by the Trustees of the State

Museum and Charles H. Van Benthuyssen, p. 12-16; Contract between the State of New York by the Trustees of the State Museum and James Hall, State Geologist, p.16-18; Report of Director, p.19-24; Current Work, p.25; Additions 1883, p.27-31; Catalogue of Translucent Sections of Rocks and Fossils. p.33-43; Report of Entomologist, p.47-60; a Report of Botanist, p. 63-68.

38 (for 1884) 1885. 138p. 3pl. (lith.) O.

*Contents:* Report of Chancellor, p. 3-5; Report of Director, p. 7-15; Additions 1884, p.16-20; List of Minerals in the General Collection, p. 21-60; Report of Geologist, p. 61-65; Report of Entomologist, p. 67-76; Report of Botanist, p. 77-138. 3 pl.

39 (for 1885) 1886. 229p. 12pl. (lith.) map. O.

*Contents:* Report of Chancellor, p. 7-8; Report of Director, p. 9-14; Additions 1885, p. 15-29; Report of Botanist, p. 30-73. 2 pl.; Report of Entomologist, p. 77-125; Simpson, G. B. Anatomy of the Snail, p. 127. 1 pl.; Webster, H. E. Annelida chaetopoda of New Jersey, p.128-59. 7 pl.; Hall, James. Obscure Organisms in Roofing Slates of Washington County, N. Y., p. 160. 1 pl.; Beecher, C. E. A Spiral Bivalve Shell from the Waverly Group of Pennsylvania, p. 161-63. 1 pl.; Smock, J. C. Crystalline Rock Region of Dutchess, Putnam and Westchester Counties, N. Y., p. 166-85; Hall, James. Building Stones, p. 186-225; Report of Geologist, p. 226-29.

40 (for 1886) 1887. 163 p. O.

*Contents:* Report of Vice-chancellor, p. 5-8; Report of Director, p. 11-19; Additions 1886, p. 21-34; Smock, J. C. Report of Field Work for 1886, p. 35-36; Report of Botanist, p. 37-77; Report of Entomologist, p. 79-154; Report of Geologist, p. 155-63 (Supplement to Geol. rep. 6).

41 (for 1887) 1888. 410p. illus. 9pl. (lith.) map. O.

*Contents:* Report of Chancellor, p. 9-11; Report of Director, p. 13-25; Additions 1887, p.27-34; Additions to Library, p.35-43; Catalogue of Gems and Precious Stones, p.44-48; Report of Botanist, p.49-122. 1 pl.; Report of Entomologist, p. 123-358; Report of Geologist, p. 359-410, 8 pl.  
*Contents of Geol. rep. 7 in Mus. rep. 41:* Palaeontology of New York, v. 6, p. 361-78; Beecher, C. E. Synoptical Table of the Genera and Species described in v. 6 of the Palaeontology of New York, p. 363-75; Synopsis of Contents of Palaeontology of New York v. 7, p. 378-80; Hall, James. Palaeontology of New York v. 8, p. 381-82; Beecher, C. E. Statement of Condition of Work on Brachiopoda, Palaeontology of New York, v. 8, p. 383-84; Beecher, C. E. Lamellibranchiata. List of Genera Illus. and not Illus. on Plates of Geol. Rep. for 1882, p.385-87; Clarke, J. M. Supposed Mastodon Bones Found at Attica, N. Y., p. 388-90. 1 pl.; Hall, James. Description of New Species of Fenestellidae of the Lower Helderberg; with explanation of plates illus. species of the Hamilton group, described in Geol. rep. for 1886, p. 391-410. 8 pl.

42 (for 1888) 1889. 496p. illus. 3pl. (lith.) O.

*Contents:* Report of Chancellor, p. 9-13; Report of Director, p. 17-36. 1 pl.; Report of Assistant in Charge, p. 37-49; Additions to Collections,

<sup>a</sup>Titles of four articles are enumerated but not printed here. The articles appear in Mus. bul. 2.

p.50-64; Additions to Library, p.65-74; Murray, David. Catalogue of Published Works of James Hall, p.75-97; Report of Botanist, p.99-144. 2 pl.; Report of Entomologist, p. 145-347; Report of Geologist, p. 349-496.

*Contents of Geol. rep. 8 in Mus. rep. 42:* Report of Geologist, p. 351-402; Palaeontology of New York, v. 7, p. 351-69; List of Type Specimens of Devonian Crustacea described in Palaeontology of New York v. 7, in the Possession of Museum, p. 370-73; Palaeontology of New York v. 8, p. 373-88; Clarke, J. M. Genera of the Palaeozoic Brachiopoda, p. 389-92; List of Microscopic Sections of Brachiopoda, p.392-93; List of Preparations for v. 8, p.393-94; List of Plates of Brachiopoda, p.394-95; Schuchert, Charles. List of Fossils in the Oriskany Sandstone of Maryland, New York and Ontario, p. 396-400; Clarke, J. M. Genus *Bron-teus* in the Chemung Rocks, p.403-5; Clarke, J. M. List of Species Constituting the known Fauna and Flora of Marcellus Epoch in N. Y., p. 406-7; Clarke, J. M. Hercynian Question, p. 408-37; Bishop, I. P. Locality of Flint Implements in Wyoming County, N. Y., p. 438-40; Catalogue of Specimens Representative of the Taconic System, p.441-44; List of Plates, Drawings, names of Draughtsmen and Lithographers for Palaeontology of New York v. 5, pt 1 and 2, v. 7 and 8, p.445-49; Record of Locality Numbers, p. 450-96.

43 (for 1889) 1890. 274p. illus. 4pl. (lith.) map. O.

*Contents:* Report of Assistant in Charge, p. 11-20; Additions to collections, p. 21-37; Additions to Library, p. 37-47; Report of Botanist, p. 49-97. 4 pl.; Report of Entomologist, p.99-205; Report of Geologist, p. 207-74.

*Contents of Geol. rep. 9 in Mus. rep. 43:* Report of Geologist, p. 209-27; Palaeontology of New York v. 8, p. 209-18; Geological Map of the State of New York, p. 218-27; Hall, James. Fossil Dictyospongidae of the Devonian and Carboniferous Formations, p. 227-29; Schuchert, Charles. On *Syringothyris*, Winchell, and its American Species, p.230-39; Schuchert, Charles. List of Species of the American Palaeozoic *Orthis*, *Spirifera*, *Spiriferina* and *Syringothyris*, p.240-57; Hall, James. New Forms of Dictyospongidae from the Rocks of the Chemung Group, p.258-62; Record of Locality Numbers, p.263-74.

44 (for 1890) 1892. 405 p. illus. 12 pl. (lith.) O.

*Contents:* Report of Director, p. 11-16; Report of Assistant in Charge, p.17-21; Additions to Collections, p.22-26; List of Catalogues of Shells published in Former Annual Reports, p.27; Catalogue of Mounted Mammals in the Collection, Sep. 30, 1890, p.28-30; Catalogue of the Collection of Mammalian Osteology, p.31-33; Report of Geologist, p.35-114, 5 pl.; Report of Botanist, p. 115-87. 4 pl.; Report of Entomologist, p. 197-405. 3 pl.

*Contents of Geol. rep. 10 in Mus. rep. 44:* Report of Geologist, p. 37-55; Palaeontology of New York v. 8, p. 37-44; Clarke, J. M. Genera of the Palaeozoic Brachiopoda, p.45-48; Original Drawings for Palaeontology of New York v. 8, p. 49; List of Figures for v. 8, p.49-51; Lists of Microscopic Sections of Brachiopoda, p.52-53; Clarke, J. M. Report of Assistant Palaeontologist, p.59-61; List of Accessions to the Depart-

ment of Palaeontology, p. 62-64; Hall, James. Descriptions of Bryozoa, p. 65-87; Clarke, J. M. Genus *Acidaspis*, p. 91-101. 3 pl.; Clarke, J. M. *Coronura aspectans*, p.105-9. 1 pl.; Clarke, J. M. *Terataspis grandis*, p.111-14, 1 pl.; (Additional papers in geologist's edition).

45 (for 1891) 1892. 616p. illus. 2pl. (phot.) map. O.

*Contents:* Report of Director, p. 11-13; Report of Assistant Director, p. 14; Report of Assistant Zoologist, p. 15-19; Additions to Collections, p. 20-28; Catalogue of Muricidae, p. 29-45; Marshall, W. B. A Deposit of Marl and Peat in the Town of New Baltimore, p. 46-52; Bishop, I. P. Salt Industry of Central New York, p. 53-61; Report of Botanist, p. 63-102; Report of Entomologist, p. 103-320. 2 pl.; Report of Geologist, p. 321-616.

*Contents of Geol. rep. 11 in Mus. rep. 45:* Report of Geologist, p. 323-45; Livonia Salt Shaft, p. 326-28; Palaeontology of New York, v. 8, p. 328-29; Clarke, J. M. List of Preparations of Spirals, Loops and Hinge-plates for v.8, pt2, p.330-31; List of Genera of Palaeozoic Brachiopoda, p.331-37; Additions to Palaeontological Collections, p. 338-44; Clarke, J. M. Catalogue of the Collection of Geological and Palaeontological Specimens Donated by the Albany Institute, p.347-69; Clarke, J. M. Report of Assistant Palaeontologist, p. 370-71; Clarke, J. M. List of Original and Illustrated Specimens in the Palaeontological Collections, pt 1, Crustacea, p. 373-437; Record of Localities of Extra Limital Geological and Palaeontological Collections, p.438-39; Clarke, J. M. On *Cordania*, a Proposed New Genus of Trilobites, p. 440-43; Publications of Geologist, p.444-47; Hall, James & Clarke, J. M. Introduction to the Study of the Brachiopoda, p. 449-616.

46 (for 1892) 1893. 495 p. illus. O.

*Contents:* Report of Director, p. 11, 62-81; Report of Assistant Director, p.12-14; Report of Assistant Zoologist, p.15-61; Additions to Zoological Collections, p.21-27; Catalogue of Zoological Collections, p.29-61; Collections of Fossils made for Palaeontology of New York Previous to 1883, p.62-65; List of Boxes of Fossils in State Hall, p.66-74; Additions to Collections in Geology and Palaeontology, p.75-77; School Collections, p.77-79; Museum Publications, p.79-81; Report of Botanist, p.83-149; Report of Geologist, p.151-288; Report of Entomologist, p.289-495.

*Contents of Geol. rep. 12 in Mus. rep. 46:* Report of Geologist, p. 153-87; Palaeontology of New York v. 8, pt 1, p. 160-68; Palaeontology of New York v. 8, pt 2, p. 169-71; Geological Map of the State of New York, p. 171-84; Geological Surveys and Maps of Part of the State of New York, p.184-85; Clarke, J. M. Report of Assistant Palaeontologist, p.189-95; Additions to the Geological and Palaeontological Collections 1891-92, p.196-99; Clarke, J. M. List of Original and Illustrated Specimens in the Palaeontological Collections, pt 2, Annelida and Cephalopoda, p. 201-50; Emerson, B. K. Two Boulders of a very Basic Eruptive Rock from the West Shore of Canandaigua Lake, p.251-55; Prosser, C. S. Devonian Section of Central New York along the Unadilla River, p. 256-88.

## 47 (for 1893) 1894. 1137p. illus. pl. (phot.) maps. O.

*Contents:* Report of Director, p. 9-19; Report of Assistant Palaeontologist, p.17; Additions to Palaeontological Collection, p.18; Report of Assistant Director, p.21-30; Report of Assistant Zoologist, p.30-34; Additions to Collections, p.35-40; World's Fair Exhibits, p.41-75; Catalogue of Zoological Collections, p.77-128; Report of Botanist, p.129-74; Report of Entomologist, p. 175-97; Report of Geologist, p. 199-1137.

*Contents of Geol. rep. 13 in Mus. rep. 47:* Hall, James. Livonia Salt Shaft, its History and Geological Relations, p. 203-14; Luther, D. D. Geology of the Livonia Salt Shaft, p. 215-324; Clarke, J. M. Succession of the Fossil Faunas in the Section of the Livonia Salt Shaft, p. 325-52; Clarke, J. M. New or Rare Species of Fossils from the Horizons of the Livonia Salt Shaft, p. 353-83; Geological Survey of the State of New York, Reports, p.385-751; Darton, N. H. Relations of the Helderberg Limestones and Associated Formations in Eastern New York, p. 391-422; Darton, N. H. Geology of Albany County, p. 423-55; Nason, F. L. Economic Geology of Albany County, p. 457-81; Darton, N. H. Geology of Ulster County, p. 483-566; Nason, F. L. Economic Geology of Ulster County, p. 567-600; Darton, N. H. Geology of the Mohawk Valley in Herkimer, Fulton, Montgomery and Saratoga Counties, p.601-23; Kemp, J. F. Geology of Essex County, p.625-66; Cushing, H. P. Geology of Clinton County, p. 667-83; Smyth, C. H. jr. Geology of Four Townships in St Lawrence and Jefferson Counties, N. Y., p. 685-709; Randall, F. A. Geology of Cattaraugus and Chautauqua Counties, p. 711-21; Clarke, J. M. Field Work in Chenango County, p.723-51; Clarke, J. M. *comp.* List of Publications relating to the Geology and Palaeontology of New York 1876-93, p.753-91; *Department of Palaeontology (v. 2 of Geol. rep.)* p.793-1137; Palaeontology of New York v. 8, pt 2, p. 797-802; Clarke, J. M. Evolution of the Genera of the Palaeozoic Brachiopoda, p.803-40; Description of New Species figured in v. 8, pt 2 of Palaeontology of New York, p. 841-51; Sherzer, W. H. Platynemic man in New York, p. 853-77; Simpson, G. B. Genera of Fenestellidae, p.879-921; Simpson, G. B. Glossary and Explanations of Specific Names of Bryozoa and Corals, p.923-41; Hall, James & Clarke, J. M. Introduction to the Study of the Brachiopoda, pt 2, p.943-1137.

## 48 (for 1894) 1895. v.1, 650p.+p. 93-595, illus. pl. (phot.) maps. O. v. 2 (Report of Geologist), 669p. illus. 44 pl. (lith.) other pl. (phot.) maps. O. v. 3, 44 pl. (lith.) (on edible fungi). O.

*Contents, v. 1:* Report of Director, p.11-39; List of Accessions, p.13; List of Awards to Mineral Exhibit at World's Fair, p.14-15; Catalogue of New York Woods, p.16-20; Catalogue of Building Stones, p.21-31; Catalogue of Rock Specimens collected by Kemp, p.32-39; Report of Geologist, p. 41-44; Marshall, W. B. Geographical Distribution of New York Unionidae, p. 45-99; Report of Botanist, p. 101-337. 44 pl. in v. 3; Report of Entomologist, p.339-635; Report of Assistant Zoologist, p. 637-47; Marshall, W. B. List of Shells Inhabiting the Vicinity of Albany and Troy, N. Y., p. 641-47; Index, p. 648-50; Bulletin 12, Ries, Heinrich. Clay Industries of New York, p. 93-262 (2d paging); Bulletin 13, Lintner, J. A. San José Scale, *Aspidiotus perniciosus* and Some

Other Destructive Scale Insects of New York State, p.263-305 (2d paging); Bulletin 14, Kemp, J. F. Geology of Moriah and Westport Townships, Essex co., p.323-55 (2d paging); Bulletin 15, Merrill, F. J. H. Mineral Resources of New York State, p.359-595 (2d paging);

*Contents of Geol. rep. 14 in Mus. rep. 48 v. 2:* Staff of geologist, p. 5; Report of Geologist and Palaeontologist, p.7-29; Preface to Palaeontology of New York, v. 8, pt 2, p. 21-28; Geological Survey of the State of New York, Reports, p. 31-125; Darton, N. H. Faulted Region of Herkimer, Fulton, Montgomery and Saratoga Counties, p. 31-53; Beecher, C. E. & Hall, C. E. Field Notes on the Geology of the Mohawk Valley, p. 54-56; Lincoln, D. F. Geology of Seneca County, p. 57-125; Bernard, Felix. Principles of Palaeontology ed. by J. M. Clarke, p.127-215; Ruedemann, Rudolf. Development and Growth of Diplograptus, p. 217-49. 5 pl.; Girty, G. H. Revision of the Sponges and Coelenterates of the Lower Helderberg group of New York, p. 259-309. 7 pl.; Hall, James & Clarke, J. M. New Species of Brachiopoda Described in Palaeontology of New York v. 8, pt 1 and 2, p. 323-72. 14 pl.; Simpson, G. B. Handbook of the Genera of the North American Palaeozoic Bryozoa, p. 403-669. 30 pl.

49 (for 1895) v. 1, 1897, v. 2-3, 1898. v. 1, 6+334p. illus. 6 pl. (lith.) other pl. (phot.) O. v. 2 (Report of Geologist) 738p. illus. pl. (phot.) maps. Q. v. 3 (Report of Geologist) p.739-984. illus. 47 pl. (lith.) Q.

*Contents, v. 1:* Report of Director, p. 1-10; Additions to Collections, p. 9-10; Report of Geologist and Paleontologist, p.11-15; Report of Botanist, p.17-83. pl.44-49; Report of Entomologist, p.85-329; Index, p.331-34.

*Contents of Geol. rep. 15, v. 1 in Mus. rep. 49, v. 2:* Report of Geologist and Palaeontologist, p.7-26; Geological Survey of the State of New York, Reports, p. 27-698; Clarke, J. M. Stratigraphic and Faunal Relations of the Oneonta Sandstones and Shales, the Ithaca and the Portage Groups in Central New York, p. 27-81; Prosser, C. S. Classification and Distribution of the Hamilton and Chemung Series of Central and Eastern New York, pt 1, p. 83-222; Luther, D. D. Stratigraphic position of the Portage Sandstones in the Naples Valley and the Adjoining Region, p. 223-36; Luther, D. D. Economic Geology of Onondaga County, p. 237-303; Bishop, I. P. Geology of Erie County, p. 305-92; Ries, Heinrich. Geology of Orange County, p.393-475; Smyth, C. H. jr. Crystalline Rocks of St Lawrence County, p. 477-97; Cushing, H. P. Geology of Clinton County, p. 499-573; Kemp, J. F. Geology of Essex County, p. 575-614; Prosser, C. S. & Cumings, E. R. Sections and Thickness of the Lower Silurian Formations on West Canada Creek and in the Mohawk Valley, p. 615-59; Smyth, C. H. jr. Talc Industry of St Lawrence County, p. 661-71; Ries, Heinrich. Physical tests of the Devonian Shales, p. 673-98; Ruedemann, Rudolf. Discovery of a Sessile Conularia, p. 699-728; Clarke, J. M. Crustaceans from the Chemung Group, p. 729-38.

*Contents of Geol. rep. 15, v. 2 in Mus. rep. 49, v. 3:* Hall, James & Clarke, J. M. Memoir on the Palaeozoic Reticulate Sponges Constituting the Family Dictyospongidae; pt 1, p. 741-984. 47 pl.

- 50 (for 1896) v. 1, 1898, v. 2, 1899. v. 1, 4+403+134p. illus. pl. (phot.) maps. O. v. 2 (Report of Geologist), 8+448p. illus. 32pl. (lith.) other pl. (phot.) maps. Q.

*Contents, v. 1:* Report of Director, p.1-20; Additions to Museum Collections, p.12-20; Geology of Crystalline Rocks of Southeastern New York, p.21-31; Origin of Serpentine in the Vicinity of New York, p. 32-44; Public Geologic and Mineralogic Collections in the United States and Canada, p. 45-74; Index to Report of Director, p. 75-76; Report of Botanist, p. 77-159; Report of Entomologist, p. 161-403; Bulletin 16, Beauchamp, W. M. Aboriginal Chipped Stone Implements, p. 3-84 (2d paging); Bulletin 17, Merrill, F. J. H. Road Materials and Road Building in New York p. 87-134 (2d paging).

*Contents of Geol. rep. 16 in Mus. rep. 50 v. 2:* Report of Geologist and Palaeontologist, pref. p.7-8; Geological Survey of the State of New York, Reports, p.1-27, 171-226; Cushing, H. P. Boundary Between the Potsdam and Precambrian Rocks North of the Adirondacks, p. 1-27; Clarke, J. M. Naples Fauna in Western New York, p. 29-161. 9 pl.; Clarke, J. M. Early Stages of Certain Goniatites, p. 163-69; Luther, D. D. Brine Springs and Salt Wells of New York and the Geology of the Salt District, p.171-226; Grabau, A. W. Faunas of the Hamilton Group of Eighteen-mile Creek and Vicinity in Western New York, p. 227-339; Hall, James & Clarke, J. M. Memoir on the Palaeozoic Reticulate Sponges Constituting the Family Dictyospongiadae, pt 2, p. 341-448. pl. 48-70.

- 51 (for 1897) 1899. v.1, r153+410p. illus. 9pl. (lith.) other pl. (phot.) maps. O. v.2 (Report of Geologist), 564p. illus. pl. (phot.) maps. O.

*Contents, v.1:* Report of Director, p.r5-13; Additions to Collections, p.r13-20; White, T. G. Relations of the Ordovician and Eo-Silurian Rocks in Portions of Herkimer, Oneida and Lewis Counties, p.r21-54; Watson, T. L. Some Higher Levels in the Postglacial Development of the Finger-lakes, p.r55-117; Nevius, J. N. Talc Industry of St Lawrence County, N. Y., p.r119-27; Nevius, J. N. History of Cayuga Lake Valley, p.r129-53; Bulletin 18, Beauchamp, W. M. Polished Stone Articles Used by the New York Aborigines, p.3-102; Bulletin 19, Merrill, F. J. H. Guide to the Study of the Geological Collections of the New York State Museum, p.105-262; Report of Botanist, p.263-321. 9 pl.; Report of Entomologist, p.327-90; General Index, p.391-410.

*Contents of Geol. rep. 17 in Mus. rep. 51, v.2:* Report of Geologist and Paleontologist, p.5-7; Bishop, I. P. Petroleum and Natural Gas in Western New York, p.9-63; Prosser, C. S. Classification and Distribution of the Hamilton and Chemung Series of Central and Eastern New York, pt2, p.65-315; Eastman, C. R. Upper Devonian Fish Fauna of Delaware County, N. Y., p.317-27; Prosser, C. S. & Rowe, R. B. Stratigraphic Geology of the Eastern Helderbergs, p.329-54; Ries, Heinrich. Limestones of New York, p.355-467; Smyth, C. H. jr. Crystalline Rocks of Western Adirondack Regions, p.469-97; Kemp, J. F. & Newland, D. H. Geology of Washington, Warren and Parts of Essex and Hamilton Counties, p.499-553; Index, p.555-64.

- 52 (for 1898) 1900. v.1, r111+695p. illus. 6pl. (lith.) other pl. (phot.) maps. O. v.2 (Report of Geologist), 169p. illus. pl. (phot.) maps. O.

*Contents, v.1:* Report of Director, p.r5-17; Accessions to Collections, p.r18-32; Bagg, R. M. jr. Report of Work on the Collections of Mesozoic and Cenozoic Fossils in Geological Hall, p.r32-40; Catalogue of Mesozoic and Cenozoic Fossils, p.r40-46; Catalogue of European Fossils presented by Murchison, p.r47-71; Bagg, R. M. jr. *comp.* Synoptic Catalogue of Fossils, p.r71-78; Nevius, J. N. Fossil Plant from Orange County, p.r79-81; Nevius, J. N. Sacandaga Mining and Milling Co. and the Sutphen Process, p.r82-87; Ries, Heinrich. Notes on a Trip from Port Jervis to Rondout, p.r88-91; Bean, T. H. Fishes of Long Island, p.r92-111; Bulletin 20, Felt, E. P. Elm-leaf Beetle in New York State, p.1-43. 1pl.; Bulletin 21, Kemp, J. F. Geology of Lake Placid Region, p.47-67; Bulletin 22, Beauchamp, W. M. Earthenware of New York Aborigines, p.71-146; Bulletin 23, Report of Entomologist, p.151-295; Bulletin 24, Felt, E. P. Memorial of Life and Entomologic Work of J. A. Lintner, p.301-611; Bulletin 25, Report of Botanist, p.617-88. 5 pl.; General Index, p.689-95.

*Contents of Geol. rep. 18 in Mus. rep. 52, v.2:* Report of Acting State Geologist and Paleontologist, p.5-7; Kümmel, H. B. The Newark or New Red Sandstone Rocks of Rockland County, p.9-50; Prosser, C. S. Sections of the Formations Along the Northern End of the Helderberg Plateau, p.51-72; Cushing, H. P. Geology of Franklin County, p.73-128; Smyth, C. H. jr & Newland, D. H. Progress in Mapping Crystalline Rocks of Western Adirondack Region, p.129-35; Kemp, J. F., Newland, D. H. & Hill, B. F. Geology of Hamilton, Warren and Washington Counties, p.137-62; Index, p.163-69.

- 53 (for 1899) 1901. v.1, r170+867p. 4pl. (lith.) other pl. (phot.) maps. O. v.2, 234p. 33pl. (lith.) Q.

*Contents, v.1:* Report of Director, p.r5-170; Report of Geologist, p.r7-154; Additions to Collections, p.r163-70; Bulletin 26, Felt, E. P. Collection, Preservation and Distribution of New York Insects, p.3-34; Bulletin 27, Felt, E. P. Shade Tree Pests in New York State, p.39-60; Bulletin 28, Peck, C. H. Plants of North Elba, p.65-266; Bulletin 29, Miller, G. S. jr. Preliminary List of New York Mammals, p.271-390; Bulletin 30, Orton, Edward. Petroleum and Natural Gas in New York, p.395-526; Bulletin 31, Report of Entomologist, p.531-653; <sup>a</sup>Report of Paleontologist, p.659-816; Report of Botanist, p.821-67. 4pl.; General Index, p.657-61.

*v.2:* Memoir 3, Clarke, J. M. Oriskany Fauna of Becraft Mountain, p.1-128. 9pl.; Memoir 4, Peck, C. H. Edible Fungi of New York, p.129-234. 24pl.

*Contents of Geol. rep. 19 in Mus. rep. 53, v.1:* Report of Geologist, p.r7-16; Kemp, J. F. & Hill, B. F. Pre-Cambrian Formations in Parts of Warren, Saratoga, Fulton and Montgomery Counties, p.r17-35; Cushing, H. P. Geology of Rand Hill and Vicinity, Clinton Co., p.r37-82; Smyth, C. H. jr. Geology of the Crystalline Rocks in the Vicinity of the St

<sup>a</sup> For contents see Paleontologist's reports, p. 262.

Lawrence River, p.r83-104; Bishop, I. P. Oil and Gas in Southwestern New York, p.r105-34; Nevius, J. N. Roofing Slate Quarries of Washington County, p.r135-50; Nevius, J. N. Emery Mines of Westchester County, p.r151-54.

- 54 (for 1900) 1902. v.1, r261+195+484p. 17pl. (lith.) other pl. (phot.) O. v.2, p.489-1063, 2pl. (lith.) other pl. (phot.) O. v.3, 968p. 37pl. (lith.) other pl. (phot.) O. v.4, 664p. 13pl. (lith.) other pl. (phot.) O.

*Contents, v.1:* Report of the Director and State Geologist, p.r3-261; Tests of Road Metal, p.r14-22; Cushing, H. P. Recent Geologic Work in Franklin and St Lawrence Counties, p.r23-82; Cushing, H. P. Pre-Cambrian Outlier at Little Falls, Herkimer co., p.r83-95; Finlay, G. I. Preliminary Report of Field Work in the Town of Minerva, Essex co., p.r96-102; Fairchild, H. L. Pleistocene Geology of Western New York, Report of Progress for 1900, p.r103-39; Eckel, E. C. The Quarry Industry in Southeastern New York, p.r141-76; Parsons, A. L. Recent Developments in the Gypsum Industry in New York State, p.r177-83; Accessions to Collections, p.r201-7; Stoller, J. H. Two New Land Isopods, p.r208-13; Scott, G. G. Notes on the Marine Food Fishes of Long Island and a Biologic Reconnaissance of Cold Spring Harbor, p.r214-29; Converse, H. M. Iroquois Silver Brooches, p.r231-54; Index, p.r255-61; Report of State Paleontologist 1900, p.3-124; Report of State Botanist 1900, p.129-99. 13pl.; Bulletin 32, Beauchamp, W. M. Aboriginal Occupation of New York, p.3-187; Bulletin 33, Farr, M. S. Check List of New York Birds, p.193-409; Bulletin 34, Cumings, E. R. Lower Silurian System of Eastern Montgomery County, Prosser, C. S. Notes on the Stratigraphy of the Mohawk Valley and Saratoga County, N. Y. p.415-84.

v.2: Bulletin 35, Ries, Heinrich. Clays of New York, p.489-944; Bulletin 36, Felt, E. P. 16th Report of State Entomologist, p.949-1063.

v.3: Bulletin 37, Felt, E. P. Illustrated Descriptive Catalogue of Injurious and Beneficial Insects of New York State, p.3-52; Bulletin 38, Miller, G. S. jr. Key to the Land Mammals of Northeastern North America, p.59-160; Bulletin 39, Clarke, J. M., Simpson, G. B. & Loomis, F. B. Paleontologic Papers, p.165-231; Bulletin 40, Simpson, G. B. Anatomy and Physiology of *Polygyra Albolabris* and *Limax Maximus*, p.237-314; Bulletin 41, Beauchamp, W. M. Wampum and Shell Articles Used by the New York Indians, p.319-480; Bulletin 42, Ruedemann, Rudolf. Hudson River Beds near Albany and their Taxonomic Equivalents, p.485-596; Bulletin 43, Kellogg, J. L. Clam and Scallop Industries of New York State, p.601-31; Bulletin 44, Ries, Heinrich. Lime and Cement Industries of New York, p.639-968.

v.4: Bulletin 45, Grabau, A. W. Guide to the Geology and Paleontology of Niagara Falls and Vicinity, p.3-284; Bulletin 46, Felt, E. P. Scale Insects of Importance and List of the Species in New York State, p.289-377; Bulletin 47, Needham, J. G. and Betten, Cornelius. Aquatic Insects in the Adirondacks, p.383-612; Bulletin 48, Woodworth, J. B. Pleistocene Geology of Portions of Nassau County and Borough of Queens, p.617-70; General Index, p.673-79.

*Contents of Geol. rep. 20 in Mus. rep. 54, v.1:* Report of Geologist, p.r7-22; Tests of Road Metal, p.r14-22; Cushing, H. P. Recent Geologic Work in Franklin and St Lawrence Counties, p.r23-82; Cushing, H. P. Pre-Cambrian Outlier at Little Falls, Herkimer Co., p.r83-95; Finlay, G. I. Preliminary Report of Field Work in the Town of Minerva, Essex Co., p.r96-102; Fairchild, H. L. Pleistocene Geology of Western New York, Report of Progress for 1900, p.r103-39; Eckel, E. C. The Quarry Industry in Southeastern New York, p.r141-76; Parsons, A. L. Recent Developments in the Gypsum Industry in New York State, p.r177-83; Index, p.r185-89.

Geologist's annual reports for 1881-1900. Rep'ts 1, 3-13, 17-date, O; 2, 14-16, Q. 1881-1902:

The annual reports of the early natural history survey, 1837-41 are out of print.

Reports 1-4, 1881-84 were published only in separate form. Of the 5th report 4 pages were reprinted in the 39th museum report, and a supplement to the 6th report was included in the 40th museum report. The 7th and subsequent reports are included in the 41st and following museum reports, except that certain lithographic plates in the 11th report (for 1891) and 13th report (for 1893) are omitted from the 45th and 47th museum reports.

Separate volumes of the geologist's 12th and 20th reports can be supplied for 50 cents; 14th, 17th and 18th for 75 cents each; 15th and 16th for \$1 each; 19th for 40 cents. Others, except as parts of museum reports, are not available.

In 1898 the paleontologic work of the State was made distinct from the geologic and will hereafter be reported separately.

1 (for 1881) 1884. 15p. 11pl. (lith.) O.

*Contents:* Report of Geologist, p.3-7; Classification of the Lamellibranchiata, p.8-15. 11pl.

2 (for 1882) 1883. 17p. illus. 61pl. (lith.) Q.

*Contents:* Report of Geologist, p.1-3; Hall, James. Discussion upon Genus Fenestella, p.5-16; 33 plates illustrating corals and Bryozoans of upper and lower Helderberg groups; Brachiopoda, plates and explanations, pl.34-61.

3 (for 1883) 1884. 61p. O.

*Contents:* Report of Geologist, p.1-3; Hall, James. Bryozoans of the Hamilton Group, p.5-61.

4 (for 1884) 1885. 47p. illus. 2pl. (lith.) maps. O.

*Contents:* Report of Geologist, p.1-8; Geological Map of the State, p.4-8; Clarke, J. M. Geological Succession in Ontario County, N. Y., p.9-22; Hall, C. E. Laurentian Magnetic Iron Ore Deposits of Northern New York, p.23-34; Hall, James, Mode of Growth and Relations of the Fenestellidae, p.35-45. 2pl.; wood-cuts of palaeozoic pectenoid shells, p.47.

5 (for 1885) 1886. 47p. illus. 28pl. (lith.) maps. O.

*Contents:* Report of Geologist, p.3-5; Palaeontology of New York, v.5, pt2, Lamellibranchiata, p.5-7; Beecher, C. E. & Hall, C. E. Field Notes on

the Geology of the Mohawk Valley, p.8-10; Oneonta Sandstone in the Vicinity of Oxford, Chenango County, N. Y., p.11; Bishop, I. P. Salt Wells of Western New York, p.12-47; 14 plates to accompany Palaeontology of New York, v.5, pt2; 14 plates to accompany Palaeontology of New York, v.6.

6 (for 1886) 1887. 70p. 8pl. (lith.) maps. O.

*Contents:* Report of Geologist, p.3-9; Williams, S. G. Lower Helderberg Rocks of Cayuga Lake, p.10-12; Williams, S. G. Tully Limestone, its Distribution and its Known Fossils p.13-29; Clarke, J. M. Annelid Teeth from Lower Portion of Hamilton Group and from Naples Shales of Ontario County, N. Y., p.30-33. 1pl.; Clarke, J. M. Supposed Mastodon Bones Found at Attica, N. Y., p.34-35; Hall, James. Dictyospongiidae in New York, p.36-38; Hall, James. Note on the Discovery of a Skeleton of an Elk in Farmington, Ontario co., p.39; Hall, James. Descriptions of Fenestellidae of the Hamilton Group, p.41-70. 7pl.

7 (for 1887) no separate edition. *see* Mus. rep. 41 for contents.

8 (for 1888) 1889. 150p. illus. O.

*Contents:* Report of Geologist, p.5-56; Palaeontology of New York v.7, p. 5-23; List of Type Specimens of Devonian Crustacea described in Palaeontology of New York, v.7 in Possession of Museum, p.24-27; Palaeontology of New York v.8, p.27-42; Clarke, J. M. Genera of the Palaeozoic Brachiopoda, p.43-46; List of Microscopic Sections of Brachiopoda, p.46-47; List of Preparations for v.8, p.47-48; List of Plates of Brachiopoda, p.48-49; Schuchert, Charles. List of the Fossils in the Oriskany Sandstone of Maryland, New York and Ontario, p.50-54; Clarke, J. M. Genus Bronteus in the Chemung Rocks, p.57-59; Clarke, J. M. List of Species Constituting the Known Fauna and Flora of the Marcellus Epoch in New York State, p.60-61; Clarke, J. M. Hercynian Question, p.62-91; Bishop, I. P. Locality of Flint Implements in Wyoming County, N. Y., p.92-94; Catalogue of Specimens Representative of the Taconic System, p.95-98; List of Plates, Drawings, Names of Draughtsmen and Lithographers for Palaeontology of New York, v.5, pt1 and 2, v.7 and 8, p.99-103; Record of Locality Numbers, p.104-50.

9 (for 1889) 1890. 72p. O.

*Contents:* Report of Geologist, p.7-25; Palaeontology of New York, v.8, p.7-16; Geological Map of the State of New York, p.16-25; Hall, James. Fossil Dictyospongiidae of the Devonian and Carboniferous Formations, p.25-27; Schuchert, Charles. On Syringothyris, Winchell and its American Species, p.28-37; Schuchert, Charles. List of Species of the American Palaeozoic Orthis, Spirifera, Spiriferina and Syringothyris, p.38-55; Hall, James. New Forms of Dictyospongiidae from the Rocks of the Chemung Group, p.56-60; Record of Locality Numbers, p.61-72.

10 (for 1890) 1891. 155p. 7pl. (lith.) O.

*Contents:* Report of Geologist, p.7-25; Palaeontology of New York v.8, p.7-14; Clarke, J. M. Genera of the Palaeozoic Brachiopoda, p.15-18; Original Drawings for the Palaeontology of New York v.8, p.19; List of Figures for v.8, p.19-21; List of Microscopic Sections of Brachiopoda, p.22-23; Clarke, J. M. Report of Assistant Palaeontologist, p.29-31;

List of Accessions to the Department of Palaeontology, p.32-34; Hall, James. Descriptions of Bryozoa, p.35-57; Clarke, J. M. Genus *Acidaspis*, p.61-71. 3 pl.; Clarke, J. M. *Coronura aspectans*, p.79-83. 1 pl.; Clarke, J. M. *Terataspis grandis*, Hall, p.87-90. 1pl.; Hall, James. Preliminary Notice of *Newberria*, p.91-99. 2 pl.; Merrill, F. J. H. Quaternary Geology of the Hudson River Valley, p.103-9; Ries, Heinrich. Quaternary Deposits of the Hudson River Valley between Croton and Albany, with Notes on Brick Clays, and the Manufacture of Brick, p.110-55.

11 (for 1891) 1892. 300p. illus. 22pl. (lith.) map. O.

*Contents:* Report of Geologist, p.7-29; Livonia Salt Shaft, p.10-12; Palaeontology of New York, v.8, p.12-13; List of Preparations of Spirals, Loops and Hinge-plates for v.8, pt2, p.14-15; List of Genera of the Palaeozoic Brachiopoda, p.15-21; Additions to the Palaeontological collections, p.22-28; Clarke, J. M. Catalogue of the Collection of Geological and Palaeontological Specimens donated by the Albany Institute, p.33-53; Clarke, J. M. Report of Assistant Palaeontologist, p.54-55; Clarke, J. M. List of the Original and Illustrated Specimens in the Palaeontological Collections, pt1, Crustacea p.57-121; Record of Localities of Extra Limal Geological and Palaeontological Collections, p.122-23; Clarke, J. M. On *Cordania* a Proposed New Genus of Trilobites, p.124-27; Publications of Geologist, p.128-31; Hall, James & Clarke, J. M. Introduction to the Study of the Brachiopoda, p.133-300, 22pl.

12 (for 1892) 1893. 142p. O.

*Contents:* Report of Geologist, p.7-41; Palaeontology of New York, v.8 pt1, p.14-22; Palaeontology of New York, v.8, pt2, p.23-25; Geological Map of the State, p.25-38; Geological Surveys and Maps of Parts of the State of New York, p.38-39; Clarke, J. M. Report of Assistant Palaeontologist, p.43-49; Additions to the Geological and Palaeontological Collections during 1891-92, p.50-53; Clarke, J. M. List of the Original and Illustrated Specimens in the Palaeontological Collections, pt2, Annelida and Cephalopoda p.55-104; Emerson, B. K. Two Boulders of a very Basic Eruptive Rock from the West Shore of Canandaigua Lake, p.105-9; Prosser, C. S. Devonian Section of Central New York along the Unadilla River, p.110-42.

13 (for 1893) 1894. v.1, 597p. illus. 4pl. (lith.) other pl. (phot.) maps. O. v.2, p.598-943. illus. pl.23-54 (lith.) maps. O.

*Contents, v.1:* Report of Geologist and Palaeontologist, p.7-8; Hall, James. Livonia Salt Shaft, its History and Geological Relations, p.11-20; Luther, D. D. Geology of the Livonia Salt Shaft, p.21-130; Clarke, J. M. Succession of the Fossil Faunas in the Section of the Livonia Salt Shaft, p.131-58; Clarke, J. M. New or Rare Species of Fossils from the Horizons of the Livonia Salt Shaft, p.159-89. 4pl.; Geological Survey of the State of New York, Reports, p.193-557; Darton, N. H. Relations of the Helderberg Limestones and Associated Formations in Eastern New York, p.197-228; Darton, N. H. Geology of Albany County, p.229-61; Nason, F. L. Economic Geology of Albany County, p.263-87; Darton, N. H. Geology of Ulster County, p.289-372; Nason, F. L. Economic Geology of Ulster County, p.373-406; Darton,

N. H. Geology of the Mohawk Valley in Herkimer, Fulton, Montgomery and Saratoga Counties, p.407-29; Kemp, J. F. Geology of Essex County, p.431-72; Cushing, H. P. Geology of Clinton County, p.473-89; Smyth, C. H. jr. Geology of Four Townships in St Lawrence and Jefferson Counties, N. Y., p.491-515; Randall, F. A. Geology of Cattaraugus and Chautauqua Counties, p.517-27; Clarke, J. M. Field Work in Chenango County, p.529-57; Clarke, J. M. *comp.* List of Publications relating to the Geology and Palaeontology of the State of N. Y. 1876-93, p.559-97;

v.2, *Dep't of palaeontology*: Palaeontology of New York, v.8, pt2, p.603-8; Clarke, J. M. Evolution of the Genera of the Palaeozoic Brachiopoda, p.609-46; Descriptions of New Species figured in v.8, pt2 of Palaeontology of New York, p.647-57; Sherzer, W. H. Platynemic Man in New York, p.659-83; Simpson, G. B. Genera of Fenestellidae, p.685-727; Simpson, G. B. Glossary and Explanations of Specific Names of Bryozoa and Corals, p.729-47; Hall, James & Clarke, J. M. Introduction to the Study of the Brachiopoda, pt2, p.749-943; pl.23-54.

- 14 (for 1894) 1895. 669p. illus. 44pl. (lith.) other pl. (phot.) maps. Q.

*Contents*: Staff of geologist, p.7; Report of Geologist and Palaeontologist, p.9-29; Preface to Palaeontology of New York, v.8, pt2, p.21-28; Geological Survey of the State of New York, Reports, p.31-125; Darton, N. H. Faulted Region of Herkimer, Fulton, Montgomery and Saratoga Counties, p.31-53; Beecher, C. E. & Hall, C. E. Field Notes on the Geology of the Mohawk Valley, with a map, p.54-56; Lincoln, D. F. Geology of Seneca County, p.57-125; Bernard, Felix. Principles of Palaeontology, ed. by J. M. Clarke, p.127-215; Ruedemann, Rudolf. Development and Mode of Growth of Diplograptus, p.217-49. 5 pl.; Girty, G. H. Revision of the Sponges and Coelenterates of the Lower Helderberg Group of New York, p.259-309. 7 pl.; Hall, James & Clarke, J. M. New Species of Brachiopoda described in Palaeontology of New York, v.8, pt1 and 2, p.323-72. 14pl; Simpson, G. B. Handbook of the Genera of the North American Palaeozoic Bryozoa, p.403-669. 30pl.

- 15 (for 1895) v.1, 1897, v.2, 1898. v.1, 738p. illus. pl. (phot.) maps. F<sup>4</sup>. v.2, p.739-984. illus. 47pl. (lith.) F<sup>4</sup>.

*Contents*: Report of Geologist and Palaeontologist, p.7-26; Geological Survey of the State of New York, Reports, p.27-698; Clarke, J. M. Stratigraphic and Faunal Relations of the Oneonta Sandstones and Shales, the Ithaca and the Portage Groups in Central New York, p.27-81; Prosser, C. S. Classification and Distribution of the Hamilton and Chemung Series of Central and Eastern New York, pt1, p.83-222; Luther, D. D. Stratigraphic Position of the Portage Sandstones in the Naples Valley and the Adjoining Region, p.223-36; Luther, D. D. Economic Geology of Onondaga County, p.237-303; Bishop, I. P. Geology of Erie County, p.305-92; Ries, Heinrich. Geology of Orange County, p.393-475; Smyth, C. H. jr. Crystalline Rocks of St Lawrence County, p.477-97; Cushing, H. P. Geology of Clinton County, p.499-573; Kemp, J. F. Geology of Essex County, p.575-614; Prosser, C. S. & Cumings, E. R. Sections and Thickness of

the Lower Silurian Formations on West Canada Creek and in the Mohawk Valley, p.615-59; Smyth, C. H. jr. Talc Industry of St Lawrence County, p.661-71; Ries, Heinrich. Physical Tests of the Devonian Shales, p.673-98; Ruedemann, Rudolf. Discovery of a Sessile Conularia, p.699-728. 4 pl.; Clarke, J. M. Crustaceans from the Chemung Group, p.729-38.

v.2: Hall, James & Clarke, J. M. Memoir on the Palaeozoic Reticulate Sponges Constituting the Family Dictyospongidae, pt1, p.741-984. 47pl.

16 (for 1896) 1899. 8+448p. illus. 32pl. (lith.) other pl. (phot.) maps. F<sup>4</sup>.

*Contents:* Report of Geologist and Palaeontologist, pref. p.7-8; Geological Survey of the State of New York, Reports, p.1-27, 171-226; Cushing, H. P. Boundary Between the Potsdam and Precambrian Rocks North of the Adirondacks, p.1-27; Clarke, J. M. Naples Fauna in Western N. Y., p.29-161. 9 pl.; Clarke, J. M. Early Stages of Certain Goniatites, p.163-69; Luther, D. D. Brine Springs and Salt Wells of New York and the Geology of the Salt District, p.171-226; Grabau, A. W. Faunas of the Hamilton Group of Eighteen-mile Creek and Vicinity in Western New York, p.227-339; Memoir 2, pt2, Hall, James & Clarke, J. M. Memoir on the Palaeozoic Reticulate Sponges Constituting the Family Dictyospongidae, pt2, p.341-448. pl.48-70.

17 (for 1897) 1899. 564p. illus. pl. (phot.) maps. O.

*Contents:* Report of Geologist and Palaeontologist, p.5-7; Bishop, I. P. Petroleum and Natural Gas in Western New York, p.9-63; Prosser, C. S. Classification and Distribution of the Hamilton and Chemung Series of Central and Eastern New York, pt2, p.65-315; Eastman, C. R. Upper Devonian Fish Fauna of Delaware County, N. Y., p.317-27; Prosser, C. S. & Rowe, R. B. Stratigraphic Geology of the Eastern Helderbergs, p.329-54; Ries, Heinrich. Limestones of New York, p.355-467; Smyth, C. H. jr. Crystalline Rocks of the Western Adirondack Region, p.469-97; Kemp, J. F. & Newland, D. H. Geology of Washington, Warren and Parts of Essex and Hamilton Counties, p.499-553; Index, p.555-64.

18 (for 1898) 1899. 169p. illus. pl. (phot.) maps. O.

*Contents:* Report of Acting State Geologist and Paleontologist, p.5-7; Kümmel, H. B. The Newark or New Red Sandstone Rocks of Rockland County, p.9-50; Prosser, C. S. Sections of the Formations along the Northern End of the Helderberg Plateau, p.51-72; Cushing, H. P. Geology of Franklin County, p.73-128; Smyth, C. H. jr & Newland, D. H. Progress in Mapping Crystalline Rocks of Western Adirondack Region, p.129-35; Kemp, J. F., Newland, D. H. & Hill, B. F. Geology of Hamilton, Warren and Washington Counties, p.137-62; Index, p.163-69.

19 (for 1899) 1901. 158p. illus. pl. (phot.) maps. O.

*Contents:* Report of Geologist, p.7-16; Kemp, J. F. & Hill, B. F. Precambrian Formations in Parts of Warren, Saratoga, Fulton and Montgomery Counties, p.17-35; Cushing, H. P. Geology of Rand Hill and

Vicinity, Clinton Co., p.r37-82; Smyth, C. H. jr. Geology of the Crystal-line Rocks in the Vicinity of the St Lawrence River, p.r83-104; Bishop, I. P. Oil and Gas in Southwestern New York, p.r105-34; Nevius, J. N. Roofing Slate Quarries of Washington County, p.r135-50; Nevius, J. N. Emery Mines of Westchester County, p.r151-54; Index, p.r155-58.

**20 (for 1900) 1902. 189p. illus. pl. (phot.) maps. O.**

*Contents:* Report of Geologist, p.r7-22; Tests of Road Metal, p.r14-22; Cushing, H. P. Recent Geologic Work in Franklin and St Lawrence Counties, p.r23-82; Cushing, H. P. Pre-Cambrian Outlier at Little Falls, Herkimer Co., p.r83-95; Finlay, G. I. Preliminary Report of Field Work in the Town of Minerva, Essex Co., p.r96-102; Fairchild, H. L. Pleistocene Geology of Western New York, Report of Progress for 1900, p.r103-39; Eckel, E. C. The Quarry Industry in Southeastern New York, p.r141-76; Parsons, A. L. Recent Developments in the Gypsum Industry in New York State, p.r177-83; Index, p.r185-89.

**Paleontologist's annual reports for 1899-1901. 1900-1902.**

*See* fourth note under Geologist's annual reports.

Bound also with museum reports of which they form a part. Reports for 1899 and 1900 may be had for 20 cents each. Beginning with 1901 these reports will be issued as bulletins.

**(for 1899) 1900. p.659-816. O.**

*Contents:* Report of Paleontologist, p.661-78; Accessions, p.679-83; General Record of Localities of American Paleozoic Fossils belonging to State Museum, p.683-813; Index, p.815-16.

**(for 1900) 1901. 124p. 4pl. (lith.). O.**

*Contents:* Report of Paleontologist, p.5-25; Accessions, p.25-31; New Entries of Localities of Fossils, p.31-81; Clarke, J. M. Notes on Paleozoic Crustaceans, p.83-119. 4 pl.; Index, p.121-24.

**(for 1901) 1902. p.419-693. 9pl. (lith.). O.**

*Contents:* Report of Paleontologist, p.419-56; George Bancroft Simpson, p.457-60; Accessions, p.461-68; New Entries of Localities of Fossils, p.468-516; Clarke, J. M.; Ruedemann, R. & Luther, D. D. Contact Lines of Upper Siluric Formations on the Brockport and Medina Quadrangles, p.517-23; Clarke, J. M. Paleontologic Results of the Areal Survey of the Olean Quadrangle, p.524-28; van Ingen, Gilbert. Potsdam Sandstone of the Lake Champlain Basin, p.529-45; Ruedemann, Rudolf. Graptolite Facies of the Beekmantown Formation in Rensselaer County, N. Y., p.546-75; Ruedemann, Rudolf. Growth and Development of *Goniograptus thureaui* McCoy, p.576-92; White, David. Fossil Alga from the Chemung of New York, p.593-605; Clarke, J. M. A New Genus of Paleozoic Brachiopods, *Eunoa*, p.606-15; Luther, D. D. Stratigraphic Value of the Portage Sandstones, p.616-31; Ulrich, E. O. and Schuchert, Charles. Paleozoic Seas and Barriers in Eastern North America, p.633-63; Clarke, J. M. Indigene and Alien Faunas of the New York Devonian, p.664-72; Explanation of Plates, p.673-84; Index, p.685-93.

<sup>a</sup>Botanist's annual reports for 1867-1901. 1869-1902.

Bound also with museum reports 21-55 of which they form a part; the first botanist's report appeared in the 21st museum report and is numbered 21. Reports 21-24, 29, 31-41 were not published separately.

Separate reports 25-28, 30, 42-50 and 52 (Museum bulletin 25) are out of print. Report 51 may be had for 40 cents; 53 for 20 cents; 54 for 50 cents; 55 (Museum bulletin 54) for 40 cents. Beginning with 1901, these reports will be issued as bulletins.

Descriptions and illustrations of edible, poisonous and unwholesome fungi of New York have been published in volumes 1 and 3 of the 48th museum report and in volume 1 of the 49th, 51st, 52d, 54th and 55th reports. The descriptions and illustrations of edible and unwholesome species contained in the 49th, 51st and 52d reports have been revised and rearranged, and combined with others more recently prepared and constitute *Museum memoir 4*.

<sup>b</sup>Contents: Order Agaricini, 23, p.66-127; Genus Boletus, 23, p.127-33; Genus Clavaria, 24, p.104-5; Genus Aecidium, 24, p.105-8; Gelatinosporium *gen. nov.*, 25, p.84-106; Synopsis of New York Puccinia, 25, p.110-23; Report on Fungi, 27, p.74-80; Parasitic Fungi of New York and their Supporting Plants, 29, p.71-82; New York Species of Helvella, 31, p.59-60; New York Species of Phallus, 32, p.37-43; Glomerularia *gen. nov.*, 32, p.43-52; New York Species of Lycoperdon, 32, p.58-72; New York species of Amanita, 33, p.38-49; Report on Fungi, 34, p.24-36; New York Carices, 35, p.147-49; New York Species of Lepiota, 35, p.150-64; New York Species of Psalliota, 36, p.41-49; New York Species of Lactarius, 38, p.111-33; New York Species of Pluteus, 38, p.133-38; New York Species of Pleurotus, Claudopus and Crepidotus, 39, p.58-73; Fungi Destructive to Wood, 41, p.86-94; New York Species of Clitopilus, 42, p.135-42 (*sep. ed.* p.39-46); New York Species of Armillaria, 43, p.86-91 (*sep. ed.* p.40-45); Fungi Destructive to Wood, 43, p.91-93 (*sep. ed.* p.45-47); New York Species of Tricholoma, 44, p.150-76 (*sep. ed.* p.38-64); Fungi of Maryland, 44, p.176-87 (*sep. ed.* p.64-75); New York Species of Omphalia, 45, p.92-102 (*sep. ed.* p.32-42); New York Species of Pluteolus, 46, p.138-41 (*sep. ed.* p.58-61); New York Species of Galera, 46, p.141-49 (*sep. ed.* p.61-69); List of New York Fungi represented at the World's Columbian Exposition at Chicago, 47, p.169-72 (*sep. ed.* p.43-46); Preliminary List of Hymenomycetous Fungi inhabiting our Principal Coniferous Forest Trees, 47, p.172-74 (*sep. ed.* p.46-48); New York Species of Carex, 48, 1:118-202 (*sep. ed.* p.20-104); Edible and Poisonous Fungi of New York, 48, 1:203-316, 44pl. in 48. v.3 (*sep. ed.* p.105-241, 44pl.); New York Species of Collybia, 49, 1:46-69 (*sep. ed.* p.32-55); Edible Fungi, 49, 1:70-78, 5pl. (*sep. ed.* p.56-62); Unwholesome Fungi, 49, 1:79, 1pl. (*sep. ed.* p.65); New York Species of Flammula, 50, 1:133-42; Edible Fungi, 51, 1:300-12, 7pl.; List of Changed Names, 52, 1:628-42; Plants of the Summit of Mt Marcy, 52, 1:657-73; Edible Fungi, 52, 1:673-82, 5pl.; Plants of Bonaparte Swamp, Lewis County, 53, 1:858-61; Edible Fungi, 54, 1:173-86 (1st paging), 8pl.; Edible Fungi, 55, 1:966-82, 5pl.

<sup>a</sup>Papers entitled *Facts and Observations touching the Flora of the State of New York* were published in Mus. rep. 18, 19 and 20, the last being by C. H. Peck, the present state botanist.

<sup>b</sup>Not including Plants added; Contributors and their contributions; Species not before reported; Remarks and observations, which appear in each report.

# Entomologist's annual reports on the injurious and other insects of the State of New York for 1882-1901. 1882-1902.

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12-15	48, v. 1	20-25	52, v. 1	35-36	54, v. 2
16-17	50 "	26-31	53 "	37-44	" v. 3
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- (EG2) Smock, J. C. First Report on the Iron Mines and Iron Ore Districts in New York. 6+70p. map. June 1889. *Out of print.*
- (B2) Peck, C. H. Boleti of the United States. 96p. Sep. 1889. [50c]

<sup>a</sup> The covers of bulletins bound in paper are counted in giving the number of pages.

- 9 (Z2) Marshall, W. B. Beaks of Unionidae Inhabiting the Vicinity of Albany, N. Y. 24p. 1pl. (lith.) Aug. 1890. 10c.  
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3 Clarke, J. M. The Oriskany Fauna of Becraft Mountain, Columbia Co. N. Y. 128p. 9pl. (lith.) Oct. 1900. 80c.

4 Peck, C. H. New York Edible Fungi, 1895-99. 106p. 25pl. (lith.) Nov. 1900. 75c.

This includes revised descriptions and illustrations of fungi reported in the 49th, 51st and 52d reports of the state botanist.

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6 Clarke, J. M. Naples Fauna in Western New York. *In press*.  
Felt, E. P. Insects Affecting Park and Woodland Trees. *In press*.

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The annual reports of the early natural history survey, 1837-41 are out of print. They were originally published as Assembly doc. 1837, no. 161; 1838, no. 200; 1839, no. 275; 1840, no. 50; 1841, no. 150.

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Published in advance of Palaeontology of New York v.5, pt2-v.7.

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<sup>a</sup>University handbooks. 7½x12½ cm. 1893-1902. In quantities, 1 cent for each 16 pages or less. Single copies postpaid as below.

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H16 Entomology. 16p. 2c.

H17 Economic Geology. *In preparation.*

H18 Insecticides and Fungicides. 20p. 3c.

**Maps.** Merrill, F. J. H. Economic and Geologic Map of the State of New York; issued as part of Museum bulletin 15 and the 48th museum report, v. 1. 59x67 cm. 1894. Scale 14 miles to 1 inch. *Out of print.*  
New edition in preparation.

——— Geologic Map of New York. 1901. Scale 5 miles to 1 inch. *In atlas form* \$3; *mounted on rollers* \$5. *Lower Hudson sheet* 60c.

The lower Hudson sheet, geologically colored, comprises Rockland, Orange, Dutchess, Putnam, Westchester, New York, Richmond, Kings, Queens and Nassau counties, and parts of Sullivan, Ulster and Suffolk counties; also northeastern New Jersey and part of western Connecticut.

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 Observations on the Genus *Rensselaeria*, p.38-41.  
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Map of Essex county (uncolored).
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Map of the Mineville district, Essex co., 30 x 33cm.  
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Map of New York showing salt wells and mines and gypsum quarries, 38 x 55cm.  
Map of western salt field of New York, 52.5 x 32.5cm.  
Chart of well sections.
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- Report on Articles given to the Indian Collection. Mus. rep. 2 (for 1848) 1849. p.84-91; 3 *rev. ed.* (for 1849) 1850. p.63-95. illus. 18pl.
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- Nason, Frank L.** Some New York Minerals and their Localities. Mus. bul. 4. 1888. 19p. 1pl. (phot.)
- Economic Geology of Albany County. Geol. rep. 13 (for 1893) 1894. p.263-87. pl. (phot.) *Same*, Mus. rep. 47 (for 1893) 1894. p.457-81. pl. (phot.) Also published separately.
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- — — Notice of Three New Species of Fossil Shells from the Devonian of Ohio. Mus. rep. 23 (for 1869) 1873. p.240-41.
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Map showing geographic distribution of Tully limestone in central New York, 37.5 x 19cm.
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- Woodworth, Jay Backus.** Pleistocene Geology of Portions of Nassau County and Borough of Queens. Mus. bul. 48. 1901. p.617-70. pl. (phot.) maps. *Same*, Mus. rep. 54 (for 1900) 1902. 4:617-70, pl. (phot.) maps.  
Sketch map of a part of Long Island, 22.5 x 18.5cm.  
Map of the Pleistocene geology of the Oyster Bay and Hempstead quadrangles on Long Island, 71 x 35cm.
- **The Northumberland Volcanic Plug.** Geol. rep. 21 (for 1901). *In press*.
- **On the Sedentary Impression of the Animal whose Trail is known as Climactichnites.** Pal. rep. (for 1902). *In press*.
- Wright, Berlin H.** Notes on the Geology of Yates County, N. Y. Mus. rep. 35 (for 1881) 1884. p.195-206. pl.15-16. map 24x21cm. (pl.16A).
- Wright, S. Hart.** The Aboriginal Work on Bluff Point, Yates County, N. Y. Mus. rep. 35 (for 1881) 1884. p.193-94. pl.14.
- Young, D. B.** List of Coleoptera taken at Newport, Herkimer co., N. Y. Ent. rep. 18 (for 1902). Mus. bul. 64. p.153-61. *In press*.

## SUBJECT INDEX

This is mainly an index to geologic, mineralogic and paleontologic publications, including papers in administrative reports of the museum. For index to Entomologist's reports 1-13, *see* Mus. bul. 24. For index to Botanist's reports 22-38, *see* Mus. rep. 41, p.94-122; reports 39-48, *see* Mus. rep. 50, 1:143-59.

Descriptions of rock formations are indexed; also subjects relating to economic geology, names of minerals, names of classes of animals and fossils, ordinal and English names of insects and generic names of plants. A special index to genera and species of fossils follows this.

Geologic formation names are indexed under terms used in the text followed by synonyms in curves, with *See also* references to synonyms and related formations at the end of entries on a subject. The name of the geologist first using the term is indicated by a footnote.

As a rule geographic divisions smaller than counties are not included in the index; there are, however, a few exceptions.

Unless otherwise specified, pl. refers to lithographic plates only.

For other explanatory matter, and list of abbreviations, *see* p.240.

**Aborigines.** Cheney. Illustrations of the Ancient Monuments in Western New York. Mus. rep. 13 (for 1859) 1860. p.37-52. 24pl. map.

Wright. Aboriginal Work on Bluff Point, Yates County. Mus. rep. 35 (for 1881) 1884. p.193-94. pl.14.

*See also* Indians.

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Hall. Acephala of Clinton Group. Pal. N. Y. 1852. 2:83-88.

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**Acidulous springs,** *see* Carbonated springs.

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**Additions to museum collections,** *see* Batrachia; Birds; Botanic collection; Crustacea; Economic geology; Entomologic collection; Fishes; Geologic collection; Historical and antiquarian collection; Library; Mammals; Mineralogic collection; Mollusca; Paleontologic collection; Reptiles; Zoologic collection.

**Adirondack pass,** *see* Indian pass.

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- Cushing. Sequence of Geologic Events. Geol. rep. 16 (for 1896) 1899. p.8-15. *Same*, Mus. rep. 50 (for 1896) 1899. 2:8-15.
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- First report describes reconnaissance of east and west portions of Adirondacks; second report chiefly filled with details of St Lawrence and Essex counties, also many details about iron mines, and an account of his ascent of Mt Marcy; third report describes Hamilton, Clinton and Warren counties; fourth report takes up the iron ores at length, specially those at Lake Henderson; fifth report describes Hamilton, Essex and Franklin counties, and iron ores of Clinton and Franklin.
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Preliminary geologic map of Albany county, 78x74.5cm.

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- Stratigraphic map showing the subdivisions of the Hudson river beds in parts of Albany and Rensselaer counties, 51.5x24.5cm.
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- Albion quadrangle.** Clarke, Ruedemann & Luther. Contact Lines of Upper Siluric Formations. Mus. bul. 52. 1902. p.519-21.
- Albite.** Beck. Albite. Min. N. Y. 1842. p.342. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.138.
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- Hall. Allegany. Geol. rep. 4th dist. (for 1839) 1840. p.401-11. Geol. N. Y. pt4. 1843. p.484-88.
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*See also* Gabbros; Hypersthene rock.

**Ant-lions**, *see* Neuropteroid insects.

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Grabau. Anthozoa of Hamilton Group. Geol. rep. 16 (for 1896) 1899. p.287-90. *Same*, Mus. rep. 50 (for 1896) 1899. 2:287-90.

Grabau. Anthozoa of Niagara Region. Mus. bul. 45. 1901. p.135-48. *Same*, Mus. rep. 54 (for 1900) 1902. 4:135-48.

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*See also* Corals.

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Lintner. Little Red Ant. Ent. rep. 11 (for 1895) 1896. p.109-14. *Same*, Mus. rep. 49 (for 1895) 1897. 1:109-14.

*See also* Hymenoptera.

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Hunt. Apatite. Mus. rep. 21 (for 1867) 1871. p.73-75.

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Nason. Apatite. Mus. bul. 4. 1888. p.8, 15.

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*See also* Eupyrchroite.

**Aphis-lions**, *see* Neuropteroid insects.

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- Aquatic insects.** Felt. Aquatic Insects of the Saranac Region. Forest, Fish and Game Com. rep. 6 (for 1900) 1901. p.499-531. illus. 6pl.
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- For dates of reports, *see* List of publications, p.264.
- Arachnida (paleozoic)** *see* Tracheata.
- Aragonite.** Beck. Arragonite. Min. N. Y. 1842. p.235-37.
- Merrill. Aragonite. Mus. bul. 19. 1898. p.120. *Same*, Mus. rep. 51 (for 1897) 1899. 1:120.
- Whitlock. Aragonite. Mus. bul. 58. 1902. p.83-84.
- Archæan.** Merrill. Archæan; Typical Localities. Mus. bul. 19. 1898. p.138-41. *Same*, Mus. rep. 51 (for 1897) 1899. 1:138-41.
- See also* Crystalline rocks.
- Archeology,** *see* Aborigines; Historical and antiquarian collection; Indians; Platycnemic man.
- Arfvedsonite.** Beck. Arfwedsonite. Min. N. Y. 1842. p.309.
- Argentite.** Beck. Vitreous Silver. Min. N. Y. 1842. p.443.
- Whitlock. Argentite. Mus. bul. 58. 1902. p.53.
- Argillaceous iron ores,** *see* Clinton ores.
- Argillite,** *see* Transition argillite.
- Arickarees.** Morgan. Stone and Bone Implements of the Arickarees. Mus. rep. 21 (for 1867) 1871. p.25-46. 6pl.
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- Army worm.** Lintner. Army worm. Ent. rep. 12 (for 1896) 1897. p.190-214. *Same*, Mus. rep. 50 (for 1896) 1898. 1:190-214 (1st paging).
- Arragonite,** *see* Aragonite.
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- Arsenical poisons.** Felt. Arsenical compounds. Ent. rep. 14 (for 1898) 1898. p.224-26 (Mus. bul. 23). *Same*, Mus. rep. 52 (for 1898) 1900. 1:224-26.
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- Felt. Insecticides. University handbook 18. p.2-6. *In press*.
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- Mather. Arsenical Ores of Putnam County. Geol. rep. 1st dist. (for 1838) 1839. p.105-6.

**Arsenopyrite** (*continued*)

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Whitlock. Arsenopyrite. Mus. bul. 58. 1902. p.60.

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**Articulata**, *see* Annelida; Crustacea; Entomology.

**Articulata** (paleozoic), *see* Annelida (paleozoic); Crustacea (paleozoic).

**Asbestos.** Merrill. Asbestos. Mus. bul. 19. 1898. p.121. *Same*, Mus. rep. 51 (for 1897) 1899. 1:121.

Whitlock. Asbestos. Mus. bul. 58. 1902. p.95.

**Asparagus beetle.** Felt. Common Asparagus Beetle. Ent. rep. 15 (for 1899) 1900. p.540-41. (Mus. bul. 31). *Same*, Mus. rep. 53 (for 1899) 1901. 1:540-41.

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**Astraeospongidae**, *see* Spongiae.

**Astylospongidae**, *see* Spongiae.

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**Atmospheric air.** Beck. Atmospheric Air. Min. N. Y. 1842. p.176.

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**Aymestry limestone.** Conrad. Aymestry Limestone. Pal. rep. (for 1840) 1841. p.31.

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 Hunt. Babingtonite. Mus. rep. 21 (for 1867) 1871. p.79.
- Bacillaria.** Mather. Bacillaria. Geol. N. Y. pt1. 1843. p.51-77, 238-45.
- Bag worm.** Felt. Bag Worm. Forest, Fish and Game Com. rep. 5 (for 1899) 1900. p.359-63.
- Lintner. Bag Worm. Ent. rep. 1 (for 1881) 1882. p.81-87.
- Bald mountain limestone,** *see* Black river limestone.
- Ballston Springs.** Mather. Ballston Springs. Geol. N. Y. pt1. 1843. p.98-101.
- Balsam bark borer.** Felt. Balsam Bark Borer. Forest, Fish and Game Com. rep. 7 (for 1901). *In press.*
- Balsam trees,** *see* Forest trees.
- Barite.** Beck. Heavy Spar. Min. N. Y. 1842. p.204-9.  
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- Whitlock. Barite. Mus. bul. 58. 1902. p.124.
- Barium carbonate,** *see* Witherite.
- Bark borers.** Felt. Bark Borers. Forest, Fish and Game Com. rep. 7 (for 1901). *In press.*
- Barnegate limestone.** *a*Mather. Barnegat Limestone. Geol. rep. 1st dist. (for 1837) 1838. p.168.  
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*See also* Newburg limestone.
- Barystrontianite.** Beck. Barystrontianite. Min. N. Y. 1842. p.213-14.
- Baryta.** Beck. Baryta. Min. rep. (for 1838) 1839. p.17-18. Min. N. Y. 1842. p.204-9.
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- Basic steel.** Ries. Manufacture. Geol. rep. 17 (for 1897) 1899. p.374.  
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- Lansing. Frogs and their Contributions to Science. Alb. Inst. Trans. 1870. 6:120-35.
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- Paulmier. Lizards, Tortoises and Batrachians of New York. Mus. bul. 51. 1902. p.389-409.
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- Bean-weevil.** Lintner. Bean-weevil. Ent. rep. 7 (for 1890) 1891. p.255-79.  
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- Becraft limestone (Scutella; Upper Pentamerus).** Clarke & Schuchert. Becraft Limestone. Mus. mem. 3. 1900. p.12. *Same*, Mus. rep. 53 (for 1899) 1901. 2:12.
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- Darton. Becraft Limestone of Albany County. Geol. rep. 13 (for 1893) 1894. p.245-46. *Same*, Mus. rep. 47 (for 1893) 1894. p.439-40.
- Darton. Becraft Limestone of Ulster County. Geol. rep. 13 (for 1893) 1894. p.304. *Same*, Mus. rep. 47 (for 1893) 1894. p.498.
- Ries. Becraft Limestone. Geol. rep. 17 (for 1897) 1899. p.364. *Same*, Mus. rep. 51 (for 1897) 1899. 2:364.  
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- Ries. Becraft Limestone of Albany County. Geol. rep. 17 (for 1897) 1899. p.429. *Same*, Mus. rep. 51 (for 1897) 1899. 2:429.  
— — — *revised*. Mus. bul. 44. 1901. p.770. *Same*, Mus. rep. 54 (for 1900) 1902. 3:770.
- Ries. Becraft Limestone of Columbia County. Geol. rep. 17 (for 1897) 1899. p.431. *Same*, Mus. rep. 51 (for 1897) 1899. 2:431.  
— — — *revised*. Mus. bul. 44. 1901. p.776-77. *Same*, Mus. rep. 54 (for 1900) 1902. 3:776-77.
- Ries. Becraft Limestone of Greene County. Geol. rep. 17 (for 1897) 1899. p.437. *Same*, Mus. rep. 51 (for 1897) 1899. 2:437.  
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- Grabau. Stratigraphy of Becraft Mountain, Columbia County. Pal. rep. (for 1902). *In press*.  
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- Bedbugs.** Felt. Bedbug. Ag. Soc. Trans. 59 (for 1899) 1900. p.299-300.
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- Beekmantown limestone (Calciferous sandrock).** *b* Clarke & Schuchert. Beekmantown Limestone. Mus. mem. 3. 1900. p.11. *Same*, Mus. rep. 53 (for 1899) 1901. 2:11.
- Ruedemann. Graptolite (Levis) Facies of the Beekmantown Formation in Rensselaer County N. Y. Mus. bul. 52. 1902. p.546-75.
- See also* Calciferous sandrock.
- Bees,** *see* Hymenoptera.
- Beetles,** *see* Coleoptera.
- Bellvale flags.** Ries. Bellvale Flags of Orange County. Geol. rep. 15 (for 1895) 1897. p.404. *Same*, Mus. rep. 49 (for 1895) 1898. 2:404.
- Bellvale mountain.** Ries. Geology of the Region along Bellvale Mountain. Geol. rep. 15 (for 1895) 1897. p.410-15. *Same*, Mus. rep. 49 (for 1895) 1898. 2:410-15.

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*a* First use of term.

*b* First use of term in original publication of this article. Science. 1899. new ser 10:877.

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 Whitlock. Beryl. Mus. bul. 58. 1902. p.96.
- Binghamton. Smock. Stone Construction in. Mus. bul. 10. 1890. p.337-38.
- Biotite. Merrill. Biotite. Mus. bul. 19. 1898. p.122. *Same*, Mus. rep. 51 (for 1897) 1899. 1:122.  
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- Birds. Catalogues and Additions. Mus. rep. 1, p.11-20; 2, p.19-22; 3 *rev. ed.*, p.19-21, 42; 4, p.20-22, 31-41; 5, p.18; 6, p.20; 7, p.17; 8, p.17-18; 9, p.13; 13, p.12-13; 24, p.19; 25, p.16; 46, p.21; 50, 1:12-14; 51, 1:r19; -52, 1:r26; 53, 1:r167-68.  
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- Cumings. Historical Sketch. Mus. bul. 34 1900. p.421-23. *Same*, Mus. rep. 54 (for 1900) 1902. 1:421-23.
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- Eaton. Birdseye Marble. Geol. and Agric. Surv. adjoining the Erie Canal. 1824. p.32.
- Emmons. Birdseye Limestone. Geol. N. Y. pt2. 1842. p.107-10, 168. Ag. N. Y. 1846. 1:122.
- Emmons. Birdseye Limestone of Clinton County. Geol. N. Y. pt2. 1842. p.317-18.
- Emmons. Birdseye Limestone of Jefferson County. Geol. rep. 2d dist. (for 1839) 1840. p.324. Geol. N. Y. pt2. 1842. p.382-86.
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**Birdseye limestone** (*continued*)

Ries. Birdseye Limestone of Herkimer County. Geol. rep. 17 (for 1897) 1899. p.438. *Same*, Mus. rep. 51 (for 1897) 1899. 2:438.

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Ries. Birdseye Limestone of Jefferson County. Mus. bul. 44. 1901. p.789-90. *Same*, Mus. rep. 54 (for 1900) 1902. 3:789-90.

Ries. Birdseye Limestone of Lewis County. Mus. bul. 44. 1901. p.790-91. *Same*, Mus. rep. 54 (for 1900) 1902. 3:790-91.

Smock. Birdseye Limestone. Mus. bul. 3. 1888. p.21; 10. 1890. p.210-11.

— — — *revised* by Merrill. Mus. bul. 15. 1895. p.426. *Same*, Mus. rep. 48 (for 1894) 1895. 1:426 (2d paging).

— — — Mus. bul. 19. 1898. p.200. *Same*, Mus. rep. 51 (for 1897) 1899. 1:200.

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— — — *revised* by Merrill. Mus. bul. 15. 1895. p.432-47. *Same*, Mus. rep. 48 (for 1894) 1895. 1:432-47 (2d paging).

Vanuxem. Birdseye Limestone. Geol. rep. 3d dist. (for 1837) 1838. p.255, 266, 283; (for 1839) 1840. p.370. Geol. N. Y. pt3. 1842. p.39-42, 45.

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White. Birdseye Formation of Herkimer County. Mus. rep. 51 (for 1897) 1899. 1:r27.

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Upper portion of Taconic slate.

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<sup>a</sup>First use of term.

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<sup>a</sup>First use of term in original publication of this article. Science. 1899. new ser. 10:877.

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*See also* Long Island division; Pleistocene.

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- <sup>a</sup>Vanuxem. Clinton Group. Geol. N. Y. pt3. 1842. p.79-90.
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- Vanuxem. Clinton Group in Madison County. Geol. N. Y. pt3. 1842. p.272.
- Vanuxem. Clinton Group in Oneida County. Geol. N. Y. pt3. 1842. p.262.

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<sup>a</sup>First use of term.

**Clinton group** (*continued*)

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- Vanuxem. Clinton Group in Oswego County. Geol. N. Y. pt3. 1842. p.271.
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- Carr. Excavations for Coal. Geol. rep. 3d dist. (for 1839) 1840. p.387.
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**Coal system**, *see* Carboniferous system.

**Cobalt**. Whitlock. Cobalt. Mus. bul. 58. 1902. p.59, 120-21.

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Hartnagel. Preliminary Observations on the Cobleskill (Coralline) Limestone of New York. Pal. rep. (for 1902). *In press*.

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*See also* Pyroxene.

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**Cocktail grit**. Mather. Cocktail Grit. Geol. rep. 1st dist. (for 1839) 1840. p.237.

*See also* Cauda galli grit.

**Codling moth**. Felt. Codling Moth. Ag. Soc. Trans. 59 (for 1899) 1900. p.276-77.

Lintner. Codling Moth. Ent. rep. 9 (for 1892) 1893. p.338-42. *Same*, Mus. rep. 46 (for 1892) 1893. p.338-42.

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*See also* Anthozoa; Corals; Hydrozoa.

**Coeymans limestone (Helderberg; Lower Pentamerus; Pentamerus)**.

<sup>b</sup>Clarke & Schuchert. Coeymans Limestone. Mus. mem. 3. 1900. p.11. *Same*, Mus. rep. 53 (for 1899) 1901. 2:11.

**Cohoes**. Smock. Stone Construction in. Mus. bul. 10. 1890. p.332-33.

**Cohoes mastodon**. Mus. rep. 20 (for 1866) 1867. p.6; 21 (for 1867) 1871. p.5, 7-9, 99-148. maps.

Map of Cohoes and vicinity showing course of the Mohawk, 23x18.5cm.

Map of Cohoes falls and vicinity (uncolored) 67x42cm.

**Colemanite**. Whitlock. Colemanite. Mus. bul. 58. 1902. p.122-23.

**Coleoptera**. Additions to Collection. Ent. rep. 3, p.141; 4, p.207-8; 5, p.325; 6, p.188-89; 7, p.382-83; 8, p.298-99; 9, p.462-63; 10, p.510-11; 11, p.285-87; 12, p.361-62; 13, p.373-74; 14, p.255-57; 15, p.601-6; 16, p.1035-38; 17, p.809-13; 18, p.170-71.

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<sup>a</sup>First use of term in report of paleontologist to secretary of Regents. Regents bulletin 59. 1903. p.42.

<sup>b</sup>First use of term in original publication of this article. Science. 1899. new ser. 10:877.

**Coleoptera** (*continued*)

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**Species**

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- Adalia bipunctata*. Ent. rep. 9, p.306. *Same*, Mus. rep. 46, p.306.
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- Agrilus ruficollis*. Ent. rep. 6, p.123-25. *Same*, Mus. rep. 43, p.123-25.
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- Anthrenus scrophulariae*. Mus. rep. 30, p.127-35.
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*Galerucella luteola*. Ent. rep. 5, p.234-42. *Same*, Mus. rep. 42, p.234-42.  
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<sup>b</sup>Term Corniferous limerock first used by Eaton. Amer. Jour. of Science. 1839. ser. 1. 36:61-71.

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- Fossil trees.** Hall. Fossil Trees in Schoharie County. Mus. rep. 24 (for 1870) 1872. p.15-16.
- Nevius. A Fossil Plant from Orange County. Mus. rep. 52 (for 1898) 1900. 1:r79-81, pl. (phot.)
- Fossils,** *see* Paleontologic collection; Paleontology; *also* Index to genera and species, p.527.
- Frankfort slates (Hudson river; Lorraine; Pulaski).** Fitch. Silicious or Frankfort Slates of Washington County. Ag. Soc. Trans. 9 (for 1849) 1850. p.829-30.
- Mather. Frankfort Slate. Geol. rep. 1st dist. (for 1840) 1841. p.92.
- a*Vanuxem. Frankfort Slate. Geol. rep. 3d dist. (for 1839) 1840. p.372-73. Geol. N. Y. pt3. 1842. p.60-64.
- Vanuxem. Frankfort Slate in Herkimer County. Geol. N. Y. pt3. 1842. p.257.
- Vanuxem. Frankfort Slate in Lewis County. Geol. rep. 3d dist. (for 1839) 1840. p.356. Geol. N. Y. pt3. 1842. p.265, 269.
- Vanuxem. Frankfort Slate in Montgomery County. Geol. N. Y. pt3. 1842. p.250.
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- Emmons. Fucoidal Layers of Clinton County. Geol. N. Y. pt2. 1842. p.310.
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*Contents:* Descriptions of new species of New York fungi; Additions to flora of State; Descriptions of New York species of fungi belonging to the genera Paxillus, Cantharellus and Craterellus; Names of New York species of Pyrenomycetous fungi according to the Saccardoan system of arrangement; Descriptions of New York species of viscid Boleti.

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This consists in part of revised descriptions and illustrations of fungi reported in the 49th, 51st and 52d reports of the state botanist.

*See also* Aecidium; Agaricus; Amanita; Armillaria; Boletus; Cantharellus; Claudopus; Clavaria; Clitopilus; Collybia; Coprinus; Cortinarius; Craterellus; Crepidotus; Flammula; Galera; Hygrophorus; Lactarius; Lentinus; Lepiota; Lycoperdon; Marasmius; Omphalia; Paxillus; Pleurotus; Pluteolus; Pluteus; Psalliota; Puccinia; Russula; Tricholoma; Uncinulae; also Paleobotany; also miscellaneous descriptions in *Botanist's reports*.

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- Hall. Gardeau Rocks in Allegany County. Geol. rep. 4th dist. (for 1839) 1840. p.401. Geol. N. Y. pt4. 1843. p.484.
- Hall. Gardeau Group in Cattaraugus County. Geol. rep. 4th dist. (for 1839) 1840. p.412.
- Hall. Gardeau Group in Erie County. Geol. rep. 4th dist. (for 1840) 1841. p.165. Geol. N. Y. pt4. 1843. p.473.
- Hall. Gardeau Rocks in Genesee County. Geol. rep. 4th dist. (for 1839) 1840. p.430. Geol. N. Y. pt4. 1843. p.467-68.
- Hall. Gardeau Group in Livingston County. Geol. rep. 4th dist. (for 1839) 1840. p.423. Geol. N. Y. pt4. 1843. p.463.
- See also* Portage group.
- Gardeau shales,** *see* Naples shales.
- Garden crops.** Felt. Insects Infesting. Ent. rep. 17 (for 1901) 1902. p.749-57, 840-44 (Mus. bul. 53).
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- Gaspé limestones.** Clarke. Fauna. Mus. mem. 3. 1900. p.80-82. *Same*, Mus. rep. 53 (for 1899) 1901. 2:80-82.
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<sup>a</sup>First use of term.

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- Hall. Tracks of Gastropoda in Clinton Group. Pal. N. Y. 1852. 2:26-37, 353-54.
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Map of New York showing atlas sheets surveyed by the United States Geological Survey in cooperation with the state engineer and surveyor, Jan. 1, 1900 (uncolored) 22.5x17.5cm.

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Preparation Suggested. Mus. rep. 24 (for 1870) 1872. p.11.

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**Geological survey, second district.** Emmons. Annual Report of 2d Geological District. Assembly doc. 1837, no.161, p.97-153 (ed. 2, p.99-155); 1838, no.200, p.185-252; 1839, no.275, p.201-39; 1840, no.50, p.259-353; 1841, no.150, p.113-36.

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**Geological survey, third district.** Conrad. Annual Report on the Geological Survey of the Third District. Assembly doc. 1837, no.161, p.155-86 (ed. 2, p.157-88).

Vanuxem. Annual Report on Geological Survey of 3d District. Assembly doc. 1838, no.200, p.253-86; 1839, no.275, p.241-85; 1840, no.50, p.355-88; 1841, no.150, p.137-47.

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**Geological survey, fourth district** (*continued*)

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*a*Term first defined by Bell. Described by Logan. Can. Geol. Surv. 1863. p. 298-344.

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- Luther. Hamilton Group of Onondaga County. Geol. rep. 15 (for 1895) 1897. p.279-84. *Same*, Mus. rep. 49 (for 1895) 1898. 2:279-84.

**Hamilton group** (*continued*)

Mather. Hamilton Group. Geol. N. Y. pt1. 1843. p.317.

Merrill. Hamilton Group. Mus. bul. 19. 1898. p.162-64. *Same*, Mus. rep. 51 (for 1897) 1899. 1:162-64.

Prosser. Classification and Distribution of the Hamilton and Chemung Series of Central and Eastern New York. Pt1, Geol. rep. 15 (for 1895) 1897. p.12-13, 83-222. pl. (phot.) map. Pt2, Geol. rep. 17 (for 1897) 1899. p.65-315. pl. (phot.) map. *Same*, Pt1, Mus. rep. 49 (for 1895) 1898. 2:12-13, 83-222. pl. (phot.) map. Pt2, Mus. rep. 51 (for 1897) 1899. 2:63-315. pl. (phot.) map.

Pt 1 Geologic map of parts of Chenango, Madison, Otsego, Schoharie and Albany counties, 58x33.5cm.

Pt 2 Map showing distribution of middle and upper Devonian rocks in central-eastern New York, 61x38.5cm.; map of Delaware county, by W. L. Fisher, 34x32cm.

Ries. Hamilton Group of Orange County. Geol. rep. 15 (for 1895) 1897. p.403-4. *Same*, Mus. rep. 49 (for 1895) 1898. 2:403-4.

Smock. Hamilton Group. Mus. bul. 3. 1888. p.17-18; 10. 1890. p.222-23.

— — *revised by* Merrill. Mus. bul. 15. 1895. p.387-88. *Same*, Mus. rep. 48 (for 1894) 1895. 1:387-88 (2d paging).

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<sup>a</sup>Vanuxem. Hamilton Group. Geol. rep. 3d dist. (for 1839) 1840. p.380. Geol. N. Y. pt3. 1842. p.150-63.

Vanuxem. Hamilton Group in Broome County. Geol. N. Y. pt3. 1842. p.295.

Vanuxem. Hamilton Group in Cayuga County. Geol. N. Y. pt3. 1842. p.288-89.

Vanuxem. Hamilton Group in Chenango County. Geol. N. Y. pt3. 1842. p.292-93.

Vanuxem. Hamilton Group in Cortland County. Geol. N. Y. pt3. 1842. p.290.

Vanuxem. Hamilton Group in Madison County. Geol. N. Y. pt3. 1842. p.275-77.

Vanuxem. Hamilton Group in Oneida County. Geol. N. Y. pt3. 1842. p.264.

Vanuxem. Hamilton County in Onondaga County. Geol. N. Y. pt3. 1842. p.285.

Vanuxem. Hamilton Group in Otsego County. Geol. N. Y. pt3. 1842. p.254.

Vanuxem. Hamilton Group in Tompkins County. Geol. N. Y. pt3. 1842. p.298.

Vanuxem. Fossils. Geol. N. Y. pt3. 1842. p.151-53, 158-63, 306.

*See also* Hamilton shales; Marcellus shales; Tully limestone.

**Hamilton shales.** Bishop. Hamilton Shales of Erie County. Geol. rep. 15 (for 1895) 1897. p.316-20. *Same*, Mus. rep. 49 (for 1895) 1898. 2:316-20.

Clarke. Hamilton Shales of Ontario County. Geol. rep. 4 (for 1884) 1885. p.12-17.

Clarke & Schuchert. Hamilton Beds. *See* New York series.

Darton. Hamilton Flags and Shales; Hamilton Black Shales in Albany County. Geol. rep. 13 (for 1893) 1894. p.240-42. *Same*, Mus. rep. 47 (for 1893) 1894. p.434-36.

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<sup>a</sup>First use of term.

**Hamilton shales** (*continued*)

- Darton. Hamilton Shales of Ulster County. Geol. rep. 13 (for 1893) 1894. p.300-1. *Same*, Mus. rep. 47 (for 1893) 1894. p.494-95.
- Emmons. Hamilton Shales. Ag. N. Y. 1846. 1:183-86.
- Grabau. Hamilton Shales. Geol. rep. 16 (for 1896) 1899. p.235-36. *Same*, Mus. rep. 50 (for 1896) 1899. 2:235-36.
- Lincoln. Hamilton Shales of Seneca County. Geol. rep. 14 (for 1894) 1895. p.93-95. *Same*, Mus. rep. 48 (for 1894) 1895. 2:93-95.
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- Luther. Hamilton Shales of the Salt District. Geol. rep. 16 (for 1896) 1899. p.217-19. *Same*, Mus. rep. 50 (for 1896) 1899. 2:217-19.
- Merrill. Hamilton Shale. Mus. bul. 19. 1898. p.163. *Same*, Mus. rep. 51 (for 1897) 1899. 1:163.
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- — — revised. Mus. bul. 35. 1900. p.831-34. *Same*, Mus. rep. 54 (for 1900) 1902. 2:831-34.
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- Harmatome.** Beck. Harmatome. Min. N. Y. 1842. p.451.
- Harrison diorite.** Eckel. Quarries. Geol. rep. 20 (for 1900) 1902. p.165-66. *Same*, Mus. rep. 54 (for 1900) 1902. 1:165-66.
- Merrill. Harrison Diorite. Mus. rep. 50 (for 1896) 1898. 1:30 (1st paging).
- Hartz mountains.** Clarke. The Hercynian Question. Geol. rep. 8 (for 1888) 1889. p.62-91. *Same*, Mus. rep. 42. (for 1888) 1889. p.408-37.
- Heavy spar,** *see* Barite.
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- Emmons. Helderberg Division. Ag. N. Y. 1846. 1:153-79.
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- αMather. Helderberg Limestone Group. Geol. rep. 1st dist. (for 1839) 1840. p.212, 236-46; (for 1840) 1841. p.85-89.
- Mather. Helderberg Division. Geol. N. Y. pt1. 1843. p.324-53.
- Mather. Fossils. Geol. N. Y. pt1. 1843. p.324, 333, 337-53.
- Mather. Economical Applications. Geol. N. Y. pt1. 1843. p.326-30.
- Vanuxem. Helderberg Division. Geol. N. Y. pt3. 1842. p.15-16, 94-146.
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- Clarke. Devonian Age of the Helderbergian Fauna and the Base of the Devonian System in New York. Mus. mem. 3. 1900. p.82-98. *Same*, Mus. rep. 53 (for 1899) 1901. 2:82-98.
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- αConrad. Helderberg Limestones. Pal. rep. (for 1838) 1839. p.62.
- Darton. Report on the Relations of the Helderberg Limestones and Associated Formations in Eastern New York. Geol. rep. 13 (for 1893) 1894. p.197-228. pl. (phot.) *Same*, Mus. rep. 47 (for 1893) 1894. p.391-422. pl. (phot.)
- Merrill. Helderberg Rocks. Mus. bul. 19. 1898. p.156-57. *Same*, Mus. rep. 51 (for 1897) 1899. 1:156-57.

**Helderberg limestones** (*continued*)

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- Ries. Helderberg Limestone of Albany County. Geol. rep. 17 (for 1897) 1899. p.429-31. *Same*, Mus. rep. 51 (for 1897) 1899. 2:429-31.
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- Ries. Lower Helderberg Limestone of Cayuga County. Mus. bul. 44. 1901. p.773-74. *Same*, Mus. rep. 54 (for 1900) 1902. 3:773-74.
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- Ries. Lower Helderberg Limestone of Greene County. Mus. bul. 44. 1901. p.786. *Same*, Mus. rep. 54 (for 1900) 1902. 3:786.
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- Hell Gate.** Meriam. Description of the Means employed to remove the Rocks at Hurlgate by Submarine Engineering. Mus. rep. 5 (for 1851) 1852. p.59-64. illus.
- Hematite.** Beck. Specular Iron Ore. Min. rep. (for 1836) 1837. p.28-32 (ed. 2, p.30-34); (for 1838) 1839. p.46. Min. N. Y. 1842. p. 23-26, 385-86.
- Conrad. Red Oxide of Iron and Associated Strata. Geol. rep. 3d dist. (for 1836) 1837. p.176-77 (ed. 2, p.178-79).
- Emmons. Specular Oxide of Iron. Geol. rep. 2d dist. (for 1837) 1838. p.206-8. Geol. N. Y. pt2. 1842. p.92-98.
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- Whitlock. Hematite. Mus. bul. 58. 1902. p.71-72.
- See also* Clinton ores; Iron ores.
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- For dates of reports, *see* List of publications, p.264.
- Fitch. Catalogue with References and Descriptions of the Insects collected and arranged for the State Cabinet of Natural History. Mus. rep. 4 (for 1850) 1851. p.43-69.
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- — — Ent. rep. 3 (for 1886) 1887. p.107-28. *Same*, Mus. rep. 40 (for 1886) 1887. p.107-28.
- — — Ent. rep. 4 (for 1887) 1888. p.107-21, 156-58. *Same*, Mus. rep. 41 (for 1887) 1888. p.227-41, 276-78.
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**Hemiptera** (*continued*)

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The following list of species includes only the more important accounts by Lintner in Ent. rep. 1-13; by Felt in Ag. Soc. Trans. 59, Forest, Fish and Game Com. reports.

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- Blissus leucopterus*. Ent. rep. 2, p.148-64.
- Chermes pinicorticis*. Forest, Fish and Game Com. rep. 7. *In press*.
- Cicada septendecim*. Ent. rep. 12, p.272-89. *Same*, Mus. rep. 50, 1:272-89 (1st paging).
- Lygus pratensis*. Ent. rep. 13, p.351-57. *Same*, Mus. rep. 51, 1:351-57.
- Poecilocapsus lineatus*. Ent. rep. 1, p.271-81.
- Psylla pyricola*. Ent. rep. 9, p.317-29. *Same*, Mus. rep. 46, p.317-29.
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- Lintner. Species Treated. Ent. rep. 4 (for 1887) 1888. p.114-20. *Same*, Mus. rep. 41 (for 1887) 1888. p.234-40.
- Ent. rep. 6 (for 1889) 1890. p.141-47. *Same*, Mus. rep. 43 (for 1889) 1890. p.141-47.
- Ent. rep. 11 (for 1895) 1896. p.200-33. *Same*, Mus. rep. 49 (for 1895) 1897. 1:200-33.
- Ent. rep. 12 (for 1896) 1897. p.292-98. *Same*, Mus. rep. 50 (for 1896) 1898. 1:292-98 (1st paging).

**Species**

The following list of species includes only the more important accounts by Lintner in Ent. rep. 1-13, Mus. bul. 13; by Felt in Ent. rep. 14-18, Ag. Soc. Trans. 59, Forest, Fish and Game Com. reports, Mus. bul. 20, 27, 46.

- Aspidiotus ancylus*. Putnam's scale insect. Mus. bul. 46, p.326-30. *Same*, Mus. rep. 54, 4:326-30.
- Aspidiotus forbesi*. Cherry scale insect. Mus. bul. 46, p.330-32. *Same*, Mus. rep. 54, 4:330-32.
- Aspidiotus hederæ*. Ivy scale insect. Ent. rep. 11. p.203-4. *Same*, Mus. rep. 49, 1:203-4.
- Mus. bul. 46, p.333-36. *Same*, Mus. rep. 54, 4:333-36.
- Aspidiotus ostreaeformis*. European fruit tree scale insect. Mus. bul. 46, p.323-26. *Same*, Mus. rep. 54, 4:323-26.
- Aspidiotus perniciosus*. San José scale insect. Ent. rep. 11, p.200-33. *Same*, Mus. rep. 49, 1:200-33.

**Hemiptera.** *Scale insects (continued)*

- Mus. bul. 13, p.263-305. *Same*, Mus. rep. 48, 1:263-305 (2d paging).
- Ent. rep. 16, p.967-88. *Same*, Mus. rep. 54, 2:967-88.
- Mus. bul. 46, p.304-23, 336-42. *Same*, Mus. rep. 54, 4:304-23, 336-42.
- Ent. rep. 17, p.761-75. (Mus. bul. 53).
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- Chionaspis furfura. Scurfy bark louse. Mus. bul. 46, p.300-4. *Same*, Mus. rep. 54, 4:300-4.
- Chionaspis pinifoliae. Pine leaf scale insect. Forest, Fish and Game Com. rep. 7. *In press*.
- Gossyparia ulmi. Elm tree bark louse. Ent. rep. 12, p.292-98. *Same*, Mus. rep. 50, 1:292-98.
- Mus. bul. 20, p.16-18. *Same*, Mus. rep. 52, 1:16-18.
- Mus. bul. 27, p.46. *Same*, Mus. rep. 53, 1:46.
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- Lecanium tulipiferae. Tulip tree scale insect. Ent. rep. 14, p.213-16. (Mus. bul. 23). *Same*, Mus. rep. 52, 1:213-16.
- Mytilaspis pomorum. Appletree bark louse. Ent. rep. 4, p.114-20. *Same*, Mus. rep. 41, p.234-40.
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**Hercynian question.** Clarke. The Hercynian Question. Geol. rep. 8 (for 1888) 1889. p.62-91. *Same*, Mus. rep. 42 (for 1888) 1889. p.408-37.  
*See also* Helderberg limestones.

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Preliminary geologic map of portions of Herkimer, Fulton, Montgomery, Saratoga and adjacent counties (uncolored) 28.5x16.5cm.

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**Herkimer county** (*continued*)

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Map of the vicinity of Frankfort hill. 31.5x16.5cm.

Map of the Precambrian border in Oneida and Lewis counties, 49.5x16cm.

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Map of Archaean areas of Highlands (uncolored) 11x18.5cm.

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*See also* Dutchess county; Orange county; Putnam county.

**Historical and antiquarian collection.** Additions. Mus. rep. 3 *rev. ed.*, p.49-62; 4, p.91-98; 5, p.45-54; 6, p.33-34; 7, p.67-77; 8, p.33-39; 9, p.49-60; 13, p.20; 18, p.12; 20 *rev. ed.*, p.20; 21, p.13-14; 22, p.12; 23, p.24; 24, p.28-30; 25, p.22; 27, p.33; 28, p.25; 29, p.23-28; 30, p.17; 31, p.13-14; 32, p.12; 34, p.16; 35, p.16; 36, p.19; 37, p.29; 39, p.19; 40, p.28; 41, p.34; 42, p.64; 43, p.36-37.

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**Hornblende** (*continued*)

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- Horton. Hornblende Rock of Orange County. Geol. rep. 1st dist. (for 1838) 1839. p.137-39.
- Hunt. Hornblende. Mus. rep. 21 (for 1867) 1871. p.77-78.
- Mather. Hornblendic Rocks. Geol. N. Y. pt1. 1843. p.533-34, 541.
- Merrill. Hornblende. Mus. bul. 19. 1898. p.121. *Same*, Mus. rep. 51 (for 1897) 1899. 1:121.
- Whitlock. Amphibole (Hornblende). Mus. bul. 58. 1902. p.94-96.
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- Smock. Quarries. Mus. bul. 3. 1888. p.71-78, 146; 10. 1890. p.222-23, 265-71.
- — — *revised* by Merrill. Mus. bul. 15. 1895. p.400-8. *Same*, Mus. rep. 48 (for 1894) 1895. 1:400-8.
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- Darton. Hudson River Formation. Geol. rep. 13 (for 1893) 1894. p.221. *Same*, Mus. rep. 47 (for 1893) 1894. p.415.
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- Fitch. Hudson River Slate of Washington County. Ag. Soc. Trans. 9 (for 1849) 1850. p.827-30.
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- Hall. Organic Remains. Geol. N. Y. pt4. 1843. p.30-31. Pal. N. Y. 1847. 1:250-314.
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- Hall. Description of New Species of Crinoidea and other Fossils from Strata of the Age of the Hudson-river Group and Trenton Limestone. Mus. rep. 24 (for 1870) 1872. p.205-24. pl.5-7.
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**Hudson river group** (*continued*)

- Lincklaen. Hudson River Group; Fossils. Mus. rep. 14 (for 1860) 1861. p.48-50.
- Luther. Hudson River Group. Geol. rep. 16 (for 1896) 1899. p.200-1. *Same*, Mus. rep. 50 (for 1896) 1899. 2:200-1.
- <sup>a</sup>Mather. Hudson Slate Group. Geol. rep. 1st dist. (for 1839) 1840. p.212, 256-58; (for 1840) 1841. p.90-96.
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- Ries. Hudson River Shale. Geol. rep. 15 (for 1895) 1897. p.689. *Same*, Mus. rep. 49 (for 1895) 1898. 2:689.
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- Ruedemann. History of the Hudson River Beds. Mus. bul. 42. 1901. p.490-512. *Same*, Mus. rep. 54 (for 1900) 1902. 3:490-512.
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- Smock. Hudson River Group. Mus. bul. 3. 1888. p.15-16; 10. 1890. p.218.
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- Smock. Quarries. Mus. bul. 3. 1888. p.51-57; 10. 1890. p.259-60.
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- See also* Champlain division; Frankfort slates; Green shales; Lorraine beds; Pulaski shales; Salmon river sandstones; Taconic.
- Hudson river valley.** Emmons. Climate. Ag. N. Y. 1846. 1:21-23.
- Merrill. Quaternary Geology. Geol. rep. 10 (for 1890) 1891. p.103-9.
- Merrill. Relief Map. Mus. bul. 19. 1898. pl.85. *Same*, Mus. rep. 51 (for 1897) 1899. v.1. pl.85.
- Ries. Quaternary Deposits of the Hudson River Valley between Croton and Albany, with notes on the brick clays and the manufacture of brick. Geol. rep. 10 (for 1890) 1891. p.110-53.
- Ries. Clays. Mus. bul. 12. 1895. p.104-19. *Same*, Mus. rep. 48 (for 1894) 1895. 1:104-19 (2d paging).
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<sup>a</sup>First use of term.

**Hudson river valley** (*continued*)

— — — *abridged* by Merrill. Mus. bul. 19. 1898. p.210-11. *Same*, Mus. rep. 51 (for 1897) 1899. 1:210-11.

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— — — Mus. bul. 35. 1900. p.687-709. *Same*, Mus. rep. 54 (for 1900) 1902. 2:687-709.

*See also* Geological survey, first district.

**Hudsonite.** Beck. Hudsonite. Min. N. Y. 1842. p.405.

**Humite group.** Whitlock. Humite Group. Mus. bul. 58. 1902. p.106.

**Hurl Gate,** *see* Hell Gate.

**Hydraulic cement,** *see* Cement.

**Hydraulic limestone,** *see* Waterlime.

**Hydrogen.** Beck. Hydrogen. Min. rep. (for 1838) 1839. p.13. Min. N. Y. 1842. p.171-72.

**Hydrozoa (paleozoic).** Clarke. Oriskany Species of Becraft Mountain. Mus. mem. 3. 1900. p.64. *Same*, Mus. rep. 53 (for 1899) 1901. 2:64.

Girty. Hydrozoa of Lower Helderberg Group. Geol. rep. 14 (for 1894) 1895. p.288-99. *Same*, Mus. rep. 48 (for 1894) 1895. 2:288-99.

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Hall. Notes upon the Genus Graptolithus and Allied Genera. Pal. N. Y. 1859. 3:495-522.

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**Hygrophorus.** Peck. Genus Hygrophorus. Mus. rep. 23 (for 1869) 1873. p.112-14.

**Hymenoptera.** Additions to Collection. Ent. rep. 3, p.140; 4, p.205; 5, p.324; 6, p.186; 8, p.296; 9, p.461; 10, p.509, 515; 11, p.284; 12, p.359; 13, p.371; 14, p.255; 15, p.600-1; 16, p.1034; 17, p.808-9; 18, p.170.  
For dates of reports, *see* List of publications, p.264.

Felt. Natural Enemies of Notolephus. Ent. rep. 14 (for 1898) 1898. p.168-71 (Mus. bul. 23). *Same*, Mus. rep. 52 (for 1898) 1900. 1:168-71.

Lintner. Species Treated. Ent. rep. 2 (for 1882 and 1883) 1885. p.217-20.

**Hymenoptera** (*continued*)

- Ent. rep. 3 (for 1886) 1887. p.87-90. *Same*, Mus. rep. 40 (for 1886) 1887. p.87-90.
- Ent. rep. 4 (for 1887) 1888. p.27-48. *Same*, Mus. rep. 41 (for 1887) 1888. p.147-68.
- Ent. rep. 5 (for 1888) 1889. p.164-73. *Same*, Mus. rep. 42 (for 1888) 1889. p.164-73.
- Ent. rep. 6 (for 1889) 1890. p.109-11. *Same*, Mus. rep. 43 (for 1889) 1890. p.109-11.
- Ent. rep. 7 (for 1890) 1891. p.223-24. *Same*, Mus. rep. 44 (for 1890) 1892. p.223-24.
- Ent. rep. 8 (for 1891) 1893. p.163-69. *Same*, Mus. rep. 45 (for 1891) 1892. p.163-69.
- Ent. rep. 10 (for 1894) 1895. p.365-69. *Same*, Mus. rep. 48 (for 1894) 1895. 1:365-69 (1st paging).
- Ent. rep. 11 (for 1895) 1896. p.109-23. *Same*, Mus. rep. 49 (for 1895) 1897. 1:109-23.
- Ent. rep. 12 (for 1896) 1897. p.181-82. *Same*, Mus. rep. 50 (for 1896) 1898. 1:181-82 (1st paging).
- Ent. rep. 13 (for 1897) 1898. p.335-42. *Same*, Mus. rep. 51 (for 1897) 1899. 1:335-42.

**Species**

The following list of species includes only the more important accounts by Fitch, in Ag. Soc. Trans. 21, 27; by Lintner in Ent. rep. 1-13; by Felt, in Ag. Soc. Trans. 59, Forest, Fish and Game Com. reports, Mus. bul. 20; by Ashmead and MacGillivray in Mus. bul. 47. For dates of reports and bulletins, see p.264.

*Aphidius nigripes*. Mus. bul. 47, p.588. *Same*, Mus. rep. 54, 4:588.

*Atractodes sepedontis*. Mus. bul. 47, p.588-89. *Same*, Mus. rep. 54, 4:588-89.

*Brachystropha quadriceps*. Mus. bul. 47, p.587. *Same*, Mus. rep. 54, 4:587.

*Isosoma hordei*. Ag. Soc. Trans. 21, p.830-41 (rep.7. sep. ed. p.144-55).

— Ent. rep. 4, p.27-35. *Same*, Mus. rep. 41, p.147-55.

*Isosoma vitis*. Mus. rep. 30, p.136-40.

*Monomorium pharaonis*. Ent. rep. 11, p.109-14. *Same*, Mus. rep. 49, 1:109-14.

— Ag. Soc. Trans. 59, p.298-99.

*Pachynematus corticosus*. Mus. bul. 47, p.584-85. *Same*, Mus. rep. 54, 4:584-85.

*Pteronius ribesii*. Ag. Soc. Trans. 27, p.909-32 (rep.12. sep. ed.)

— Ent. rep. 2, p.217-21.

*Rhizarcha stigma*. Mus. bul. 47, p.587-88. *Same*, Mus. rep. 54, 4:587-88.

*Taxonus innominatus*. Mus. bul. 47. 1901. p.585. *Same*, Mus. rep. 54, 4:585.

*Telenomus longicornis*. Mus. bul. 47, p.586. *Same*, Mus. rep. 54, 4:586.

*Tenthredo rufopectus*. Ent. rep. 13, p.335-37. *Same*, Mus. rep. 51, 1:335-37.

*Thalessa lunator*. Ent. rep. 4, p.35-41. *Same*, Mus. rep. 41, p.155-61.

— Forest, Fish and Game Com. rep. 4, p.389-92.

*Tremex columba*. Mus. bul. 20. 1898. p.18-19. *Same*, Mus. rep. 52, 1:18-19.

— Mus. bul. 57, p.19-20.

— Forest, Fish and Game Com. rep. 4, p.389.

**Hypersthene**. Beck. *Hypersthene*. Min. N. Y. 1842. p.309-11. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.135.

Whitlock. *Hypersthene*. Mus. bul. 58. 1902. p.91.

- Hypersthene rock.** Emmons. Hypersthene Rock. Geol. N. Y. pt2. 1842. p.27-37. Ag. N. Y. 1846. 1:39, 40.
- Emmons. Hypersthene rock of Essex County. Geol. N. Y. pt2. 1842. p.221-24.
- Emmons. Hypersthene rock of St Lawrence County. Geol. N. Y. pt2. 1842. p.337.
- Watson. Hypersthene Rock of Essex County. Ag. Soc. Trans. 12 (for 1852) 1853. p.777-78.
- See also* Anorthosites; Laurentian system; Norite.
- Hypsometric map,** *see* Physical geography.
- Ice.** Mather. Transport by Floating Ice; Ground Ice. Geol. N. Y. pt1. 1843. p.39-42.
- See also* Pleistocene.
- Ichneumons,** *see* Hymenoptera.
- Idocrase.** Beck. Idocrase. Min. N. Y. 1842. p.321-23. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.136.
- Hunt. Idocrase. Mus. rep. 21 (for 1867) 1871. p.84.
- See also* Vesuvianite.
- Igneous rocks.** Emerson. Notes upon Two Boulders of a very Basic Eruptive Rock from the West Shore of Canandaigua Lake, and their Contact Phenomena upon the Trenton Limestone. Geol. rep. 12 (for 1892) 1893. p.105-9. *Same*, Mus. rep. 46 (for 1892) 1893. p.251-55.
- Merrill. Igneous Rocks. Mus. bul. 19. 1898. p.124-25. *Same*, Mus. rep. 51 (for 1897) 1899. 1:124-25.
- See also* Anorthosites; Gabbros; Granite; Syenites; Trap.
- Illuminating gas,** *see* Natural gas.
- Ilmenite.** Beck. Ilmenite. Min. N. Y. 1842. p.431-32.
- Hunt. Ilmenite. Mus. rep. 21 (for 1867) 1871. p.86.
- Mather. Specular Oxide of Iron. Titaniferous Iron. Geol. N. Y. pt1. 1843. p.514-15.
- Whitlock. Ilmenite or Menaccanite. Mus. bul. 58. 1902. p.72.
- Ilvaite.** Beck. Ilvaite. Min. N. Y. 1842. p.403-4.
- Indexes.** Felt. Index to Entomologist's Reports 1-13. Mus. bul. 24. 1899. p.401-600. *Same*, Mus. rep. 52 (for 1898) 1900. 1:401-600.
- General Index to the Annual Reports 1-20 on the State Cabinet of Natural History, exclusive of the geological and palaeontological papers. Mus. rep. 21 (for 1867) 1871. p.149-90.
- Indian collection.** Additions. Mus. rep. 2. p.73-79; 3 *rev. ed.*, p.51-95; 4, p.93-101; 5, p.47-54; 6, p.33; 7, p.9, 69-77; 8, p.35-39; 9, p.51; 10, p.187-88; 13, p.17-20; 15, p.13; 16, p.13-14; 18, p.12; 20 *rev. ed.*, p.18; 21, p.13-14; 22, p.12; 23, p.24; 24, p.28; 25, p.22; 28, p.25; 30, p.17; 31, p.13-14; 32, p.12; 34, p.16; 37, p.29; 39, p.19; 41, p.34; 42, p.64; 43, p.36-37; 52, 1:r24-25; 53, 1:r165-66.
- For dates of Mus. rep. *see* List of publications, p.241.
- Catalogue of the Historical and Antiquarian Collection. Mus. rep. 2 (for 1848) 1849. p.71-79.
- Catalogue of Indian Relics obtained by E. G. Squier. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.57-58.
- Catalogue of Indian Relics obtained in the Connecticut and Mississippi Valleys by Dexter Marsh. Mus. rep. 7 (for 1853) 1854. p.73-77.
- Cornplanter Tomahawk. Mus. rep. 4 (for 1850) 1851. p.99-101.
- Morgan. Communication from. Mus. rep. 2 (for 1848) 1849. p.81-83.
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<sup>a</sup> First use of term.

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- Lepidoptera.** Additions to Collection. Ent. rep. 3, p.140-41; 4, p.205-6; 5, p.324; 6, p.186-87; 7, p.381-82; 8, p.296-97; 9, p.461-62; 10, p.509-10, 515-16; 11, p.284-85; 12, p.359-60; 13, p.371-72; 14, p.257-59; 15, p.607-13; 16, p.1038-42; 17, p.815-19; 18, p.172-74.  
For dates of reports, *see* List of publications, p.264.
- Felt. Species Treated. Ent. rep. 14 (for 1898) 1898. p.163-213. *Same*, Mus. rep. 52 (for 1898) 1900. 1:163-213.
- Ent. rep. 16 (for 1900) 1901. p.955-66. *Same*, Mus. rep. 54 (for 1900) 1902. 2:955-66.
- Ent. rep. 18 (for 1902) p.94-99.
- Forest, Fish and Game Com. rep. 4 (for 1898) 1899. p.368-85.
- Forest, Fish and Game Com. rep. 5 (for 1899) 1900. p.359-71.
- Lintner. Species Treated. Mus. rep. 23 (for 1869) 1873. p.137-216.
- Mus. rep. 24 (for 1870) 1872. p.109-70.
- Mus. rep. 26 (for 1872) 1874. p.117-92.
- Mus. rep. 27 (for 1873) 1875. p.137-48.
- Mus. rep. 30 (for 1876) 1878. p.141-248.  
Including paper on Adirondack Lepidoptera.
- Ent. rep. 1 (for 1881) 1882. p.81-167, 333-41.
- Ent. rep. 2 (for 1882 & 1883) 1885. p.57-110, 213-17.
- Ent. rep. 3 (for 1886) 1887. p.90-96. *Same*, Mus. rep. 40 (for 1886) 1887. p.90-96.
- Ent. rep. 4 (for 1887) 1888. p.48-60, 151-54. *Same*, Mus. rep. 41 (for 1887) 1888. p.168-80, 271-74.
- Ent. rep. 5 (for 1888) 1889. p.174-219. *Same*, Mus. rep. 42 (for 1888) 1889. p.174-219.

**Lepidoptera** (*continued*)

- Ent. rep. 7 (for 1890) 1891. p.225-28, 302-7. *Same*, Mus. rep. 44 (for 1890) 1892. p.225-28, 302-7.
- Ent. rep. 8 (for 1891) 1893. p.129-40, 169-72. *Same*, Mus. rep. 45 (for 1891) 1892. p.129-40, 169-72.
- Ent. rep. 10 (for 1894) 1895. p.369-86. *Same*, Mus. rep. 48 (for 1894) 1895. 1:369-86 (1st paging).
- Ent. rep. 11 (for 1895) 1896. p.124-62. *Same*, Mus. rep. 49 (for 1895) 1897. 1:124-62.
- Ent. rep. 12 (for 1896) 1897. p.183-222. *Same*, Mus. rep. 50 (for 1896) 1898. 1:183-222 (1st paging).
- Ent. rep. 13 (for 1897) 1898. p.342-51. *Same*, Mus. rep. 51 (for 1897) 1899. 1:342-51.
- Lintner. Otto Meske's Collection of Lepidoptera. Alb. Inst. Trans. 1874. 8:215-20.

**Species**

The following list of species includes only the more important accounts by Fitch, in Ag. Soc. Trans. 14, 15; by Lintner in Ent. Contrib. 1-4 and Ent. rep. 1-13, Mus. bul. 6; by Felt in Ent. rep. 14-18, Ag. Soc. Trans. 59, Forest, Fish and Game Com. reports, Mus. bul. 27, 37; by Speyer in Mus. rep. 23. For dates of reports and bulletins see p.241, 264.

- Acidalia lacteola*. Mus. rep. 30, p.224.
- Alypia octomaculata*. Ent. rep. 5, p.179-83. *Same*, Mus. rep. 42, p.179-83.
- Anisota senatoria*. Ent. rep. 5, p.192-200. *Same*, Mus. rep. 42, p.192-200.
- Forest, Fish and Game Com. rep. 7. *In press*.
- Bucculatrix pomifoliella*. Ent. rep. 1, p.157-62.
- Cacoecia fervidana*. Forest, Fish and Game Com. rep. 7. *In press*.
- Carpocapsa pomonella*. Ent. rep. 9, p.338-42. *Same*, Mus. rep. 46, p.338-42.
- Ag. Soc. Trans. 59, p.276-77.
- Cerura aquilonaris*. Mus. rep. 30, p.197-99.
- Cerura candida*. Mus. rep. 30, p.199-200.
- Cerura occidentalis*. Mus. rep. 30, p.194-95.
- Cidaria packardata*. Mus. rep. 30, p.225-26.
- Clisiocampa americana*. Ent. rep. 14, p.117-90. (Mus. bul. 23). *Same*, Mus. rep. 52, 1:177-90.
- Mus. bul. 27, p.46-48. *Same*, Mus. rep. 53, 1:46-48.
- Ag. Soc. Trans. 59, p.271-72.
- Clisiocampa disstria*. Ent. rep. 14, p.191-201. (Mus. bul. 23). *Same*, Mus. rep. 52, 1:191-201.
- Forest, Fish and Game Com. rep. 4, p.374-80.
- Ag. Soc. Trans. 59, p.275-76.
- Ent. rep. 16, p.994-98. (Mus. bul. 36). *Same*, Mus. rep. 54, 2:994-98.
- Coleophora malivorella*. Ent. rep. 1, p.163-67.
- Cossus reticulatus*. Mus. rep. 30, p.242-43.
- Cossus undosus*. Mus. rep. 30, p.243-45.
- Cucullia intermedia*. Mus. rep. 23, p.217-22.
- Cucullia lucifuga*. Mus. rep. 23, p.217-22.
- Cucullia serraticornis*. Mus. rep. 26, p.174-76.
- Cucullia speyeri*. Mus. rep. 26, p.168-74.
- Diastictis ribearia*. Ent. rep. 12, p.310-11. *Same*, Mus. rep. 50, 1:310-11 (1st paging).
- Mus. bul. 37, p.13-14. *Same*, Mus. rep. 54, 3:13-14.
- Ellema pineum*. Mus. rep. 23, p.169-71.
- Eudamus epigena*. Mus. rep. 30, p.181-82.

**Lepidoptera** (*continued*)

- Euproctis chrysorrhoea*. Ent. rep. 18, p.94-99.  
*Eu Vanessa antiopa*. Forest, Fish and Game Com. rep. 5, p.368-71.  
*Heliothis armiger*. Ent. rep. 1, p.116-26.  
*Hemileuca maia*. Mus. rep. 23, p.137-53.  
 — Forest, Fish and Game Com. rep. 7. *In press*.  
*Hydroecia nitela*. Ent. rep. 1, p.110-16.  
*Hyphantria cunea*. Forest, Fish and Game Com. rep. 5, p.363-68.  
*Hypocala hilli*. Mus. rep. 30, p.217-19.  
*Leucania unipuncta*. Ent. rep. 12, p.190-214. *Same*, Mus. rep. 50, 1:190-214 (1st paging).  
*Lycaena lotis*. Mus. rep. 30, p.169-70.  
*Mamestra picta*. Ent. rep. 5, p.206-10. *Same*, Mus. rep. 42, p.206-10.  
 — Ent. rep. 14, p.201-7. (Mus. bul. 23). *Same*, Mus. rep. 52, 1:201-7.  
*Mecyna reversalis*. Ent. rep. 11, p.142-45. *Same*, Mus. rep. 49, 1:142-45.  
*Melitaea nycteis*. Mus. rep. 23, p.158-59.  
*Melitaea phaeton*. Mus. rep. 23, p.154-57.  
*Melitta satyriniformis*. Ent. rep. 2, p.57-68.  
*Nisoniades afranius*. Mus. rep. 30, p.175-76.  
*Nisoniades ausonius*. Mus. rep. 23, p.166-68.  
*Nisoniades icelus*. Mus. rep. 23, p.162-64.  
*Nisoniades lucilius*. Mus. rep. 23, p.164-66.  
*Nisoniades pacuvius*. Mus. rep. 30, p.172-73.  
 Noctuidae (family). Mus. bul. 6, 36p.  
*Notolophus leucostigma*. Ent. rep. 2, p.68-89.  
 — Ent. rep. 11, p.124-26. *Same*, Mus. rep. 49, 1:124-26.  
 — Ent. rep. 14, p.163-76. (Mus. bul. 23). *Same*, Mus. rep. 52, 1:163-76.  
 — Mus. bul. 27, p.41-44. *Same*, Mus. rep. 53, 1:41-44.  
 — Forest, Fish and Game Com. rep. 4, p.368-74.  
*Oxyptilus periscelidactylus*. Ag. Soc. Trans. 14, p.843-47 (rep. 1. sep. ed. p.139-43).  
 — Ent. rep. 12, p.218-22. *Same*, Mus. rep. 50, 1:218-22 (1st paging).  
*Pamphila osceola*. Mus. rep. 30, p.170-71.  
*Peridroma saucia*. Ent. rep. 5, p.200-6. *Same*, Mus. rep. 42, p.200-6.  
*Pieris oleracea*. Mus. rep. 23, p.160-61.  
*Porthetria dispar*. Ent. rep. 9, p.422-26. *Same*, Mus. rep. 46, p.422-26.  
 — Ent. rep. 16, p.955-62. (Mus. bul. 36). *Same*, Mus. rep. 54, 2:955-62.  
*Psilura monacha*. Ent. rep. 18, p.111-13.  
*Pyralis costalis*. Ent. rep. 11, p.145-51. *Same*, Mus. rep. 49, 1:145-51.  
*Retinia comstockiana*. Forest, Fish and Game Com. rep. 7. *In press*.  
*Retinia frustrana*. Forest, Fish and Game Com. rep. 7. *In press*.  
*Sanninoidea exitiosa*. Ag. Soc. Trans. 14, p.812-21 (rep. 3. sep. ed. p.108-17).  
 — Ent. rep. 8, p.181-86. *Same*, Mus. rep. 45, p.181-86.  
*Sitotroga cerealella*. Ent. rep. 2, p.102-10.  
 — Ent. rep. 10, p.377-86. *Same*, Mus. rep. 48, 1:377-86 (1st paging).  
*Thyridopteryx ephemeraeformis*. Ent. rep. 1, p.81-87.  
 — Forest, Fish and Game Com. rep. 5, p.359-63.  
*Tineola biselliella*. Ag. Soc. Trans. 59, p.297-98.  
*Tischeria malifoliella*. Ent. rep. 1, p.160-62. *Same*, Mus. rep. 49, 1:160-62.  
*Xylina lepida*. Mus. rep. 30, p.207-8.

**Lepidoptera** (*continued*)

*Xylina unimoda*. Mus. rep. 30. p.208-9.

*Ypsolophus pometellus*. Ag. Soc. Trans. 15, p.453-65 (rep. 2. sep. ed. p.221-33).

— Ent. rep. 16, p.962-66. (Mus. bul. 36). *Same*, Mus. rep. 54, 2:962-66.

*Zeuzera pyrina*. Ent. rep. 9, p.426-27. *Same*, Mus. rep. 46, p.426-27.

— Forest, Fish and Game Com. rep. 4, p.380-84.

**Lepiota**. Peck. New York Species of *Lepiota*. Mus. rep. 35 (for 1881) 1884. p.150-64.

**Leucite**. Whitlock. *Leucite*. Mus. bul. 58. 1902. p.91.

**Leucopyrite**. Beck. *Leucopyrite*. Min. N. Y. 1842. p.451.

**Lewis county**. Beck. Mineralogy. Min. rep. (for 1839) 1840. p.72-74.

Peck. Plants of Bonaparte Swamp, Lewis County. Bot. rep. 53 (for 1899) 1900. p.858-61. *Same*, Mus. rep. 53 (for 1899) 1901. 1:858-61.

Ries. Limestones. Geol. rep. 17 (for 1897) 1899. p.439-41. *Same*, Mus. rep. 51 (for 1897) 1899. 2:439-41.

— — *revised*. Mus. bul. 44. 1901. p.790-92. *Same*, Mus. rep. 54 (for 1900) 1902. 3:790-92.

Smock. Building Stone Quarries. Mus. bul. 3. 1888. p.115-16; 10. 1890. p.247.

— — *revised* by Merrill. Mus. bul. 15. 1895. p.440. *Same*, Mus. rep. 48 (for 1894) 1895. 1:440 (2d paging).

Vanuxem. Lewis County. Geol. rep. 3d dist. (for 1839) 1840. p.356-67. Geol. N. Y. pt3, 1842. p.264-70.

White. Report on the Relations of the Ordovician and Eo-Silurian Rocks in Portions of Herkimer, Oneida and Lewis Counties. Mus. rep. 51 (for 1897) 1899. 1:r21-54. pl. (phot.) 2 maps.

Map of the vicinity of Frankfort hill, 31.5x16.5cm.

Map of the Precambrian border in Oneida and Lewis counties, 49.5x16cm.

**Libethenite**. Whitlock. *Libethenite*. Mus. bul. 58. 1902. p.120.

**Library of museum**. Additions. Mus. rep. 10, p.189-90; 20 *rev. ed.*, p.20; 22, p.12-16; 23, p.24-26; 24, p.30-31; 25, p.23-26; 26, p.20-24; 27, p.33-40; 28, p.26-28; 29, p.23-28; 30, p.17-22; 31, p.14-17; 32, p.13-16; 34, p.20-23; 35, p.16-18; 36, p.19-20; 37, p.29-31; 38, p.18-20; 39, p.19-24; 40, p.28-32; 41, p.35-43; 42, p.65-74; 43, p.37-47.

For dates of Mus. rep. see List of publications, p.241.

Catalogue of Books. Mus. rep. 20 (for 1866) 1867. p.59-61.

**Lignite**. Beck. *Lignite*. Min. rep. (for 1836) 1837. p.59 (ed. 2, p.61); (for 1838) 1839. p.16. Min. N. Y. 1842. p.191-92.

Mather. *Lignite and Fossil Wood*. Geol. N. Y. pt1. 1843. p.264-70.

Merrill. Localities. Mus. bul. 15. 1895. p.582. *Same*, Mus. rep. 48 (for 1894) 1895. 1:582 (2d paging).

— — Mus. bul. 19. 1898. p.234-35. *Same*, Mus. rep. 51 (for 1897) 1899. 1:234-35.

**Lime**. Beck. *Lime*. Min. N. Y. 1842. p.214-48.

Beck. Manufacture of Lime. Min. N. Y. 1842. p.74-75.

Conrad. Use of Lime as a Manure. Geol. rep. 3d dist. (for 1836) 1837. p.171-72 (ed. 2, p.173-74).

Hall. Lime in Erie County. Geol. rep. 4th dist. (for 1840) 1841. p.159-61. Geol. N. Y. pt4. 1843. p.472.

Mather. Lime and Hydraulic Cement. Geol. rep. 1st dist. (for 1839) 1840. p.239-44. Geol. N. Y. pt1. 1843. p.328-30.

Mather. Lime, whence derived. Geol. N. Y. pt1. 1843. p.77-79.

Mather. Nitrates of Lime and Potassa. Geol. N. Y. pt1. 1843. p.85.

Merrill. Lime and Cement. Mus. bul. 19. 1898. p.222. *Same*, Mus. rep. 51 (for 1897) 1899. 1:222.

**Lime** (*continued*)

Merrill. Lime and Cement; Directory of Producers. Mus. bul. 15. 1895. p.519-26. *Same*, Mus. rep. 48 (for 1894) 1895. 1:519-26 (2d paging).

Nason. Lime Burning in Ulster County. Geol. rep. 13 (for 1893) 1894. p.396. *Same*, Mus. rep. 47 (for 1893) 1894. p.590.

Ries. Lime. Geol. rep. 17 (for 1897) 1899. p.375-89. *Same*, Mus. rep. 51 (for 1897) 1899. 2:375-89.

Ries. Lime and Cement Industries of New York. Mus. bul. 44. 1901. p.637-968. pl. (phot.) maps. *Same*, Mus. rep. 54 (for 1900) 1902. 3:637-968. pl. (phot.) maps.

Ries. Directory of Producers. Mus. bul. 44. 1901. p.839-48. *Same*, Mus. rep. 54 (for 1900) 1902. 3:839-48.

Ries. Lime of Orange County. Geol. rep. 15 (for 1895) 1897. p.469. *Same*, Mus. rep. 49 (for 1895) 1898. 2:469.

*See also* Calcareous minerals; Chlorid of lime; Gypsum; Niter.

**Limestone springs.** Mather. Limestone Springs. Geol. N. Y. pt1, 1843. p.111-13.

**Limestones.** Eckel. Quarries in Southeastern New York. Geol. rep. 20 (for 1900) 1902. p.169-76. *Same*, Mus. rep. 54 (for 1900) 1902. 1:169-76.

Emmons. Transition, or Blue Limestone. Geol. rep. 2d dist. (for 1836) 1837. p.119-20 (ed. 2, p.121-22).

Emmons. Gneiss, Hornblende and Granular Limestone. Geol. rep. 2d dist. (for 1836) 1837. p.113-16 (ed. 2, p.115-18).

Emmons. Transition Rocks of Essex; Limestones, Shales, etc. Geol. rep. 2d dist. (for 1837) 1838. p.226-30.

Hall. Limestones of Orleans County. Geol. rep. 4th dist. (for 1837) 1838. p.358-59.

Hall. Limestones not Metamorphic, Compact or Subcrystalline; their Geological and Geographical Distribution. Mus. rep. 39 (for 1885) 1886. p.194-95.

Horton. Limestones of Orange County. Geol. rep. 1st dist. (for 1838) 1839. p.147-52.

Lincoln. Limestone of Seneca County. Geol. rep. 14 (for 1894) 1895. p.111. *Same*, Mus. rep. 48 (for 1894) 1895. 2:111.

Mather. Limestones and Marbles of Columbia and Dutchess Counties. Geol. rep. 1st dist. (for 1837) 1838. p. 165-72.

Mather. Limestone of New York, Westchester and Putnam Counties. Geol. rep. 1st dist. (for 1838) 1839. p.89-98.

Mather. Red Conglomerate Limestone. Geol. rep. 1st dist. (for 1838) 1839. p.126-27. Geol. N. Y. pt1. 1843. p.288-89.

Mather. Limestone of Orange and Rockland Counties. Geol. rep. 1st dist. (for 1838) 1839. p.130-31.

Mather. Compact Grey Limestone. Geol. N. Y. pt1. 1843. p.288.

Mather. Metamorphic Limestones. Geol. N. Y. pt1. 1843. p.439-87.

Merrill. Directory of Quarrymen. Mus. bul. 15. 1895. p.486-93. *Same*, Mus. rep. 48 (for 1894) 1895. 1:486-93 (2d paging).

Merrill. Road Materials. Mus. bul. 17. 1897. p.105. *Same*, Mus. rep. 50 (for 1896) 1898. 1:105 (2d paging).

—— Mus. bul. 19. 1898. p.205. *Same*, Mus. rep. 51 (for 1897) 1899. 1:205.

Nason. Limestone for Building in Albany County. Geol. rep. 13 (for 1893) 1894. p.279. *Same*, Mus. rep. 47 (for 1893) 1894. p.473.

Ries. Limestones of New York and their Economic Value. Geol. rep. 17 (for 1897) 1899. p.355-467. *Same*, Mus. rep. 51 (for 1897) 1899. 2:355-467.

**Limestones** (*continued*)

Ries. Lime and Cement Industries of New York, with analyses. Mus. bul. 44. 1901. p.637-968. pl. (phot.) maps. *Same*, Mus. rep. 54 (for 1900) 1902. 3:637-968. pl. (phot.) maps.

Map of New York State showing location of limestone quarries and marl deposits and manufactories of natural and Portland cement (uncolored) 72x74cm.

Map of New York State showing distribution of limestone (uncolored) 44.5x35cm.

Smock. Limestones. Mus. bul. 3. 1888. p.20-22; 10. 1890. p.207-13.

— — — revised by Merrill. Mus. bul. 15. 1895. p.423-29. *Same*, Mus. rep. 48 (for 1894) 1895. 1:423-29 (2d paging).

— — — revised by Merrill. Mus. bul. 19. 1898. p.196-203. *Same*, Mus. rep. 51 (for 1897) 1899. 1:196-203.

Smock. Quarries. Mus. bul. 3. 1888. p.94-134; 10. 1890. p.238-55.

— — — revised by Merrill. Mus. bul. 15. 1895. p.432-48. *Same*, Mus. rep. 48 (for 1894) 1895. 1:432-48 (2d paging).

Smock. Tests; Durability; Causes of Decay. Mus. bul. 10. 1890. p.364-89.

Vanuxem. Limestone, Marl and Tufa. Geol. rep. 4th dist. (for 1836) 1837. p.191-93 (ed. 2, p. 193-95).

Vanuxem. Upper Limestone. Geol. rep. 3d dist. (for 1837) 1838. p.272, 285.

*See also* Carboniferous system; Crystalline rocks; Primitive limestone; Waterlime; *also names of formations*, i. e. Onondaga limestone; Tully limestone, etc.

**Limonite.** Beck. Limonite; Hydrous Peroxide of Iron. Min. rep. (for 1836) 1837. p.33-39 (ed. 2, p.35-41); (for 1838) 1839. p.46. Min. N. Y. 1842. p.29-36, 386-87.

Carr. Bog-ore. Geol. rep. 3d dist. (for 1839) 1840. p.386.

Emmons. Bog Ore of St Lawrence County. Geol. rep. 2d dist. (for 1837) 1838. p.208-9. Geol. N. Y. pt2. 1842. p.348-49.

Emmons. Hematitic Iron, or Limonite. Geol. N. Y. pt2. 1842. p.161-62.

Hall. Bog Ore. Geol. rep. 2d dist. (for 1836) 1837. p.138-42 (ed. 2, p.140-44).

Hall. Bog Iron Ore. Geol. rep. 4th dist. (for 1838) 1839. p.335.

Hall. Bog Ore of Niagara County. Geol. rep. 4th dist. (for 1837) 1838. p.367. Geol. N. Y. pt4. 1843. p.447.

Hall. Bog Iron of Orleans County. Geol. rep. 4th dist. (for 1837) 1838. p.355. Geol. N. Y. pt4. 1843. p.437-38.

Hall. Bog and Argillaceous Iron of Wayne County. Geol. N. Y. pt4. 1843. p.419.

Mather. Bog Ore. Geol. rep. 1st dist. (for 1836) 1837. p.72-73 (ed. 2, p.74-75); (for 1839) 1840. p.224-25. Geol. N. Y. pt1. 1843. p.119-20, 236-37.

Mather. Bog Ore of Columbia and Dutchess Counties. Geol. rep. 1st dist. (for 1837) 1838. p.156.

Mather. Limonite in Putnam and Westchester Counties. Geol. rep. 1st dist. (for 1838) 1839. p.107-8.

Mather. Limonite and Lead. Geol. rep. 1st dist. (for 1840) 1841. p.111-12.

Mather. Limonite or Hematite Ore Beds. Geol. N. Y. pt1. 1843. p.488-93.

Merrill. Localities in New York. Mus. bul. 15. 1895. p.543. *Same*, Mus. rep. 48 (for 1894) 1895. 1:543 (2d paging).

Nason. Limonite of Ulster County. Geol. rep. 13 (for 1893) 1894. p.598. *Same*, Mus. rep. 47 (for 1893) 1894. p.592.

Smock. Limonites of Dutchess and Columbia Counties. Mus. bul. 7. 1889. p.12-13, 52-61.

— — — revised by Merrill. Mus. bul. 15. 1895. p.539-41. *Same*, Mus. rep. 48 (for 1894) 1895. 1:539-41 (2d paging).

**Limonite** (*continued*)

— — — *revised* by Merrill. Mus. bul. 19. 1898. p.220-21. *Same*, Mus. rep. 51 (for 1897) 1899. 1:220-21.

Smock. Limonite of Staten Island. Mus. bul. 7. 1889. p.61-62.

— — — *revised* by Merrill. Mus. bul. 15. 1895. p.541. *Same*, Mus. rep. 48 (for 1894) 1895. 1:541 (2d paging).

— — — *revised* by Merrill. Mus. bul. 19. 1898. p.221. *Same*, Mus. rep. 51 (for 1897) 1899. 1:221.

Vanuxem. Bog Ore, Limonite. Geol. N. Y. pt3. 1842. p.228-29.

Whitlock. Limonite (brown hematite). Mus. bul. 58. 1902. p.77-78.

**Lithographing.** Ries. Lithographing. Geol. rep. 17 (for 1897) 1899. p.375. *Same*, Mus. rep. 51 (for 1897) 1899. 2:375.

— — — Mus. bul. 44. 1901. p.660. *Same*, Mus. rep. 54 (for 1900) 1902. 3:660.

**Lithology.** Leeds. Lithology of the Adirondacks. Mus. rep. 30 (for 1876) 1878. p.79-109.

**Little Falls quadrangle.** Cushing. Pre-Cambrian Outlier at Little Falls. Geol. rep. 20 (for 1900) 1902. p.83-95. *Same*, Mus. rep. 54 (for 1900) 1902. 1:r83-95.

Cushing. Geology of the Vicinity of Little Falls. Mus. bul. *In press*.

**Livingston county.** Beck. Mineralogy. Min. rep. (for 1839) 1840. p.74-75.

Bishop. Salt Wells of Western New York. Geol. rep. 5 (for 1885) 1886. p.12-47.

Bishop. Natural Gas. Geol. rep. 17 (for 1897) 1899. p.20-22. *Same*, Mus. rep. 51 (for 1897) 1899. 2:20-22.

Bishop. Oil and Gas. Geol. rep. 19 (for 1899) 1901. p.124-25. *Same*, Mus. rep. 53 (for 1899) 1901. 1:r124-25.

Dickinson. Bluestone Quarries. Mus. bul. 61. *In press*.

Felt. Entomological reports from. Ent. rep. 15 (for 1899) 1900. p.562. (Mus. bul. 31). *Same*, Mus. rep. 53 (for 1899) 1901. 1:562.

— — — Ent. rep. 16 (for 1900) 1901. p.1012-13. (Mus. bul. 36). *Same*, Mus. rep. 54 (for 1900) 1902. 2:1012-13.

— — — Ent. rep. 17 (for 1901) 1902. p.787. (Mus. bul. 53).

— — — Ent. rep. 18 (for 1902). p.149. *In press*.

Hall. Livingston County. Geol. rep. 4th dist. (for 1839) 1840. p.416-24. Geol. N. Y. pt4. 1843. p.459-64.

Ries. Limestone Formations. Mus. bul. 44. 1901. p.792-93. *Same*, Mus. rep. 54 (for 1900) 1902. 3:792-93.

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Map of the Precambrian border in Oneida and Lewis counties, 49.5x16cm.

*See also* Champlainic; *also names of subdivisions; also names of classes of fossils*, i. e. Brachiopoda, Cephalopoda, etc.

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<sup>a</sup>First use of term in original publication of this article. Science. 1899. new ser. 10:877.

<sup>b</sup>First use of term.

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*See also Iron.*

**Mispickel**, *see* Arsenopyrite.

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Emmons. Mohawk Limestone of Jefferson County. Geol. rep. 2d dist. (for 1839) 1840. p.324.

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*See also Mohawkian.*

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**Mohawk river valley.** Beck. Valley of the Mohawk and Western New York; Mineralogy. Min. rep. (for 1840) 1841. p.8-11.

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<sup>a</sup>First use of term.

**Mohawk river valley** (*continued*)

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Map showing results of field work in Mohawk valley, 25x20.5cm.

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Darton. Faulted Region of Herkimer, Fulton, Montgomery and Saratoga Counties. Geol. rep. 14 (for 1894) 1895. p.11-12, 31-53. pl. (phot.) map. *Same*, Mus. rep. 48 (for 1894) 1895. 2:11-12, 31-53. pl. (phot.) map.

Preliminary geologic map of portions of Herkimer, Fulton, Montgomery, Saratoga and adjacent counties (uncolored) 28.5x16.5cm.

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Prosser. Notes on the Stratigraphy of the Mohawk Valley and Saratoga County. Mus. bul. 34. 1900. p.469-82. 6pl. (phot.) map. *Same*, Mus. rep. 54 (for 1900) 1902. 1:469-82. 6pl. (phot.) map.  
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Catalogue of Shells presented by William Newcomb. Mus. rep. 11 (for 1857) 1858. p.37-42.

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Catalogue of Shells presented to the State Museum by the Smithsonian Institution in 1865 and 1866. Mus. rep. 20 (for 1866) 1867. p.19-54.

**Mollusca** (*continued*)

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**Montgomery county.** Beck. Mineralogy. Min. rep. (for 1839) 1840. p.77.

Cummings. Lower Silurian System of Eastern Montgomery County. Mus. bul. 34. 1900. p.415-68. 4pl. (phot.) map. *Same*, Mus. rep. 54 (for 1900) 1902. 1:415-68. 4pl. (phot.) map.

Geologic map of Amsterdam quadrangle, 44x32.5cm.

Darton. Geology of the Mohawk Valley in Herkimer, Fulton, Montgomery and Saratoga Counties. Geol. rep. 13 (for 1893) 1894. p.407-29. pl. (phot.) *Same*, Mus. rep. 47 (for 1893) 1894. p.601-23. pl. (phot.)

Darton. Faulted Region. Geol. rep. 14 (for 1894) 1895. p.11-12, 31-53. pl. (phot.) map. *Same*, Mus. rep. 48 (for 1894) 1895. 2:11-12, 31-53. pl. (phot.) map.

Preliminary geologic map of portions of Herkimer, Fulton, Montgomery, Saratoga and adjacent counties (uncolored) 28.5x16.5cm.

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Map of the "Noses" (colored).

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**Montrose sandstone (Oneonta; Portage).** *a*Vanuxem. Montrose Sandstone, or Sandstone of Oneonta. Geol. rep. 3d dist. (for 1839) 1840. p.381.

*See also* Oneonta sandstone; Portage sandstone.

**Moors quadrangle.** Cushing. Geology of Rand Hill and Vicinity, Clinton County. Geol. rep. 19 (for 1899) 1901. p.r37-82. 2 maps. *Same*, Mus. rep. 53 (for 1899) 1901. 1:r37-82. 2 maps.

Geologic maps of parts of Clinton county, 33x22, 10.5x5cm.

*a* First use of term.

- Mortar.** Ries. Mortar. Geol. rep. 17 (for 1897) 1899. p.386. *Same*, Mus. rep. 51 (for 1897) 1899. 2:386.  
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- Moscow shale.** Bishop. Moscow Shale of Erie County. Geol. rep. 15 (for 1895) 1897. p.320. *Same*, Mus. rep. 49 (for 1895) 1898. 2:320.  
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<sup>a</sup>Hall. Moscow Shales. Geol. rep. 4th dist. (for 1838) 1839. p.298-300. Geol. N. Y. pt4. 1843. p.187.  
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 Luther. Moscow Shales in Livonia Salt Shaft. Geol. rep. 13 (for 1893) 1894. p.42. *Same*, Mus. rep. 47 (for 1893) 1894. p.236.  
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- Mosses.** Peck. Catalogue of Mosses presented to the State of New York by C. H. Peck. Mus. rep. 18 (for 1864) 1865. p.193-96.  
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- Mound builders,** *see* Aborigines.
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- Mountains.** Hall. Theory of Formation. Pal. N. Y. 1859. 3.66-73, 82-88, 95-96.
- Muck swamps.** Hall. Muck Swamps. Geol. rep. 4th dist. (for 1839) 1840. p.444-45. Geol. N. Y. pt4. 1843. p.359-60.
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<sup>a</sup>First use of term.

**Muscovite** (*continued*)

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Whitlock. Muscovite. Mus. bul. 58. 1902. p.110-11.

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Sketch map of a part of Long Island, 22.5x18.5cm.

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<sup>a</sup>Term proposed by J. M. Clarke in 1885, *see* U. S. Geol. Surv. Bul. 16. p.36.

**Natural gas (continued)**

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Map of the Cattaraugus oil and gas district, 34.5x24cm.

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*See also* Petroleum.

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*aContents:* De Kay, J. E. Zoology of New York, 1842-44. Torrey, John. Flora of New York, 1843. Beck, L. C. Mineralogy of New York, 1842. Mather, Emmons, Vanuxem & Hall. Geology of New York, 1842-43. Emmons, Ebenezer, Agriculture of New York, 1846-54. Hall, James. Paleontology of New York, 1847-94.

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Report of the Select Committee appointed to investigate the Matters connected with the Publication of the State Work on Natural History. 178p. Assembly doc. 1850, no.9.

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*a See also* List of publications, p.269, for fuller contents.

**Natural History Survey of the State of New York** (*continued*)

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- Order of Publication of the Volumes. Mus. rep. 7 (for 1853) 1854. p.125.
- Vanuxem. Division of Districts of Geological Survey. Geol. rep. 4th dist. (for 1836) 1837. p.209-10 (ed. 2, p.211-12).
- See also* New York State Museum.
- Natural rock cement**, *see* Cement.
- Neelytown limestone**. Ries. Neelytown Limestone. Geol. rep. 15 (for 1895) 1897. p.442-43. *Same*, Mus. rep. 49 (for 1895) 1898. 2:442-43.  
*See also* Black river limestone.
- Nemalite**. Beck. Nemalite. Min. N. Y. 1842. p.272. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.131-32.
- Nephelite**. Whitlock. Nephelite. Mus. bul. 58. 1902. p.97.
- Neuropteroid insects**. Additions to Collection. Ent. rep. 4, p.208; 5, p.326; 6, p.189; 8, p.300; 9, p.464; 10, p.512; 11, p.288; 12, p.364; 13, p.375; 14, p.259, 262; 15, p.613, 619; 16, p.1042, 1046; 17, p.819, 824; 18, p.174.  
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- Felt. Species Treated. Ent. rep. 10 (for 1894) 1895. p.463-80. *Same*, Mus. rep. 48 (for 1894) 1895. 1:463-80 (1st paging).  
 — Ent. rep. 14 (for 1898) 1898. p.216-18. (Mus. bul. 23). *Same*, Mus. rep. 52 (for 1898) 1900. 1:216-18.  
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 — Ent. rep. 4 (for 1887) 1888. p.121-24. *Same*, Mus. rep. 41 (for 1887) 1888. p. 241-44.  
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**Neuropteroid insects** (*continued*)

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Needham & others. Species Treated. Mus. bul. 68. *In press*.

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The following list of species includes only the more important accounts by Lintner, in Ent. rep. 11; by Felt in Ent. rep. 10, 14, Ag. Soc. Trans. 59; by Needham and others in Mus. bul. 47. For dates of reports and bulletins, see p.264.

Anax junius. Mus. bul. 47, p.471-72. *Same*, Mus. rep. 54, 4:471-72.

Baetis pygmaea. Mus. bul. 47, p. 421-23. *Same*, Mus. rep. 54, 4:421-23.

Basiaeschna janata. Mus. bul. 47, p.466-67. *Same*, Mus. rep. 54, 4:466-67.

Bittacus. Ent. rep. 10, p.463-80. *Same*, Mus. rep. 48, 1:463-80.

Boyeria vinosa. Mus. bul. 47, p.464-66. *Same*, Mus. rep. 54, 4:464-66.

Caenis diminuta. Mus. bul. 47, p.426-27. *Same*, Mus. rep. 54, 4:426-27.

Celithemis elisa. Mus. bul. 47, p.515. *Same*, Mus. rep. 54, 4:515.

Celithemis eponina. Mus. bul. 47, p.514-15. *Same*, Mus. rep. 54, 4:514-15.

Chloroperla bilineata. Mus. bul. 47, p.414-15. *Same*, Mus. rep. 54, 4:414-15.

Climacia dictyona. Mus. bul. 47, p.558-60. *Same*, Mus. rep. 54, 4:558-60.

Cordulegaster maculatus. Mus. bul. 47, p.476-77. *Same*, Mus. rep. 54, 4:476-77.

Cordulia shurtleffi. Mus. bul. 47, p.502-3. *Same*, Mus. rep. 54, 4:502-3.

Didymops transversa. Mus. bul. 47, p.481-82. *Same*, Mus. rep. 54, 4:481-82.

Dorocordulia libera. Mus. bul. 47, p.504-5. *Same*, Mus. rep. 54, 4:504-5.

Dromogomphus spinosus. Mus. bul. 47, p.461-62. *Same*, Mus. rep. 54, 4:461-62.

Ephemera varia. Mus. bul. 47, p.429. *Same*, Mus. rep. 54, 4:429.

Ephemerella excrucians. Mus. bul. 47, p.425-26. *Same*, Mus. rep. 54, 4:425-26.

Epiaeschna heros. Mus. bul. 47, p.468-69. *Same*, Mus. rep. 54, 4:468-69.

Epicordulia princeps. Mus. bul. 47, p.488-89. *Same*, Mus. rep. 54, 4:488-89.

Gomphus abbreviatus. Mus. bul. 47, p.448. *Same*, Mus. rep. 54, 4:448.

Gomphus brevis. Mus. bul. 47, p.449-50. *Same*, Mus. rep. 54, 4:449-50.

Gomphus descriptus. Mus. bul. 47, p.452-54. *Same*, Mus. rep. 54, 4:452-54.

Gomphus exilis. Mus. bul. 47, p.455-56. *Same*, Mus. rep. 54, 4:455-56.

Gomphus fraternus. Mus. bul. 47, p.451. *Same*, Mus. rep. 54, 4:451.

Gomphus scudderi. Mus. bul. 47, p.456-57. *Same*, Mus. rep. 54, 4:456-57.

Gomphus spicatus. Mus. bul. 47, p.459-60. *Same*, Mus. rep. 54, 4:459-60.

Gomphus villosipes. Mus. bul. 47, p.460-61. *Same*, Mus. rep. 54, 4:460-61.

Hagenius brevistylus. Mus. bul. 47, p.440-41. *Same*, Mus. rep. 54, 4:440-41.

Halesus sp.? Mus. bul. 47, p.567-70. *Same*, Mus. rep. 54, 4:567-70.

Helocordulia uhleri. Mus. bul. 47, p.497-98. *Same*, Mus. rep. 54, 4:497-98.

Heptagenia pulchella. Mus. bul. 47, p.420-21. *Same*, Mus. rep. 54, 4:420-21.

Hexagenia variabilis. Mus. bul. 47, p.427-28. *Same*, Mus. rep. 54, 4:427-28.

Hydropsyche sp.? Mus. bul. 47, p.566-67. *Same*, Mus. rep. 54, 4:566-67.

Ladona julia. Mus. bul. 47, p.530. *Same*, Mus. rep. 54, 4:530.

Lanthus parvulus. Mus. bul. 47, p.441-42. *Same*, Mus. rep. 54, 4:441-42.

**Neuropteroid insects** (*continued*)

- Leucorhinia glacialis. Mus. bul. 47, p.518-19. *Same*, Mus. rep. 54, 4:518-19.
- Leucorhinia intacta. Mus. bul. 47, p.517. *Same*, Mus. rep. 54, 4:517.
- Leuctra tenella. Mus. bul. 47, p.416-18. *Same*, Mus. rep. 54, 4:416-18.
- Libellula auripennis. Mus. bul. 47, p. 532-33. *Same*, Mus. rep. 54, 4:532-33.
- Libellula basalis. Mus. bul. 47, p.532. *Same*, Mus. rep. 54, 4:532.
- Libellula cyanea. Mus. bul. 47, p.534. *Same*, Mus. rep. 54, 4:534.
- Libellula pulchella. Mus. bul. 47, p.536. *Same*, Mus. rep. 54, 4:536.
- Libellula quadrimaculata. Mus. bul. 47, p.534-35. *Same*, Mus. rep. 54, 4:534-35.
- Mesothemis simplicicollis. Mus. bul. 47, p.527-28. *Same*, Mus. rep. 54, 4:527-28.
- Molanna cinerea. Mus. bul. 47, p. 564-65. *Same*, Mus. rep. 54, 4:564-65.
- Nannothemis bella. Mus. bul. 47, p.509-11. *Same*, Mus. rep. 54, 4:509-11.
- Nasiaeschna pentacantha. Mus. bul. 47, p.467-68. *Same*, Mus. rep. 54, 4:467-68.
- Neurocordulia obsoleta. Mus. bul. 47, p.486-87. *Same*, Mus. rep. 54, 4:486-87.
- Odonata-Zygoptera and Anisoptera. Mus. bul. 68. *In press*.
- Ophiogomphus aspersus. Mus. bul. 47, p.437-38. *Same*, Mus. rep. 54, 4:437-38.
- Ophiogomphus carolus. Mus. bul. 47, p.439. *Same*, Mus. rep. 54, 4:439.
- Pachydiplax longipennis. Mus. bul. 47, p.526-27. *Same*, Mus. rep. 54, 4:526-27.
- Panorpa. Ent. rep. 10, p.463-80. *Same*, Mus. rep. 48, 1:463-80.
- Pantala flavescens. Mus. bul. 47, p.539-40. *Same*, Mus. rep. 54, 4:539-40.
- Perithemis domitia. Mus. bul. 47, p.512-13. *Same*, Mus. rep. 54, 4:512-13.
- Plathemis lydia. Mus. bul. 47, p.536-37. *Same*, Mus. rep. 54, 4:536-37.
- Polycentropus lucidus. Mus. bul. 47, p.565-66. *Same*, Mus. rep. 54, 4:565-66.
- Sialidae. Mus. bul. 68. *In press*.
- Sialis infumata. Mus. bul. 47, p.542-44. *Same*, Mus. rep. 54, 4:542-44.
- Siphylurus alternatus. Mus. bul. 47, p.423-25. *Same*, Mus. rep. 54, 4:423-25.
- Sisyra umbrata. Mus. bul. 47, p.555-57. *Same*, Mus. rep. 54, 4:555-57.
- Somatochlora elongata. Mus. bul. 47, p.499-500. *Same*, Mus. rep. 54, 4:499-500.
- Sympetrum semicinctum. Mus. bul. 47, p.523-24. *Same*, Mus. rep. 54, 4:523-24.
- Sympetrum vicinum. Mus. bul. 47, p.522-23. *Same*, Mus. rep. 54, 4:522-23.
- Tachopteryx thoreyi. Mus. bul. 47, p.472-73. *Same*, Mus. rep. 54, 4:472-73.
- Thermobia furnorum. Ent. rep. 14, p.216-18. (Mus. bul. 23). *Same*, Mus. rep. 52, 1:216-18.
- Ag. Soc. Trans. 59, p.301.
- Thrips tabaci. Ent. rep. 11, p.241-47. *Same*, Mus. rep. 49, 1:241-47.
- Tramea carolina. Mus. bul. 47, p.538. *Same*, Mus. rep. 54, 4:538.
- Tramea lacerata. Mus. bul. 47, p.539. *Same*, Mus. rep. 54, 4:539.
- New Baltimore.** Marshall. Report on a Deposit of Marl and Peat in New Baltimore. Mus. rep. 45 (for 1891) 1892. p.46-52.

- New Jersey.** Webster. Annelida Chaetopoda of New Jersey. Mus. rep. 32 (for 1878) 1879. p.101-28; 39 (for 1885) 1886. p.128-59. pl.4-10.
- <sup>a</sup>New Red Sandstone.** Conrad. New Red Sandstone or Saliferous System. Pal. rep. (for 1840) 1841. p.43-44.
- Emmons. New Red Sandstone. Ag. N. Y. 1846. 1 200-1.
- Gale. Red Sandstone of New York County. Geol. rep. 1st dist. (for 1838) 1839. p.191.
- Kümmel. The Newark or New Red Sandstone Rocks of Rockland County, N. Y. Geol. rep. 18 (for 1898) 1899. p.9-50. pl. (phot.) map. *Same*, Mus. rep. 52 (for 1898) 1900. 2:9-50. pl. (phot.) map. Map showing Triassic rocks of Rockland county, 45x44cm.
- Mather. Red Sandstone or Freestone. Geol. N. Y. pt1. 1843. p.287.
- Mathier. Red Sandstone of Rockland County. Geol. rep. 1st dist. (for 1838) 1839. p.123-26.
- Mather. Red Sandstone Division. Geol. N. Y. pt1. 1843. p.283-94.
- See also* Triassic.
- New Scotland limestone (Catskill shaly; Delthyris shaly).** <sup>b</sup>Clarke & Schuchert. New Scotland Beds. Mus. mem. 3. 1900. p.11. *Same*, Mus. rep. 53 (for 1899) 1901. 2:11.
- New York city and county.** Beck. Mineralogy. Min. rep. (for 1839) 1841. p.78-79.
- Gale. Geology. Geol. rep. 1st dist. (for 1838) 1839. p.177-99.
- Gale. Borings for Water. Geol. N. Y. pt1. 1843. p.136-40.
- Gale. Boulders. Geol. N. Y. pt1. 1843. p.178-84.
- Gale. Grooves, Furrows and Scratches. Geol. N. Y. pt1. 1843. p.209-10.
- Gale. Island of New York, Geology and Mineralogy. Geol. N. Y. pt1. 1843. p.518-24.
- Gale. Diary of a Geological Survey of the Island of New York. Geol. N. Y. pt1. 1843. p.581-604.
- Howell. Relief Map of New York and Vicinity. 22.5x14.5cm. Mus. rep. 51 (for 1897) 1899. v.1, facing p.12.
- Howell. Relief Map of Manhattan Island. 32x12cm. 1898. Mus. rep. 52 (for 1898) 1900. v.1.
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<sup>b</sup>First use of term in original publication of this article. Science. 1899. new ser. 10:877.

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- Vanuxem. Niagara Group in Madison County. Geol. N. Y. pt3. 1842. p.272.
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<sup>a</sup> First use of term.<sup>b</sup> Term first used by Hall. Amer. Jour. Sci. 1842. ser. 1. 42-53.

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**a** First use of term.

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<sup>a</sup> Term first used by Hall and Vanuxem in 1839.

**Onondaga salt group** (*continued*)

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- Vanuxem. Onondaga Salt Group in Oneida County. Geol. N. Y. pt3. 1842. p.263.
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<sup>a</sup>Term first used by Hall and Vanuxem in 1839.

**Ontario county** (*continued*)

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**Orange county** (*continued*)

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<sup>a</sup> Term first used by Hall and Vanuxem in 1839.

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<sup>a</sup> First use of term.

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- v. 2 Organic Remains of Lower Middle Division of the New York System.
- v. 3 Organic Remains of the Lower Helderberg Group and the Oriskany Sandstone.
- v. 4 Fossil Brachiopoda of the Upper Helderberg, Hamilton, Portage and Chemung Groups.
- v. 5 pt1 Lamellibranchiata 1. Monomyaria of the Upper Helderberg, Hamilton and Chemung Groups.
- — — Lamellibranchiata 2. Dimyaria of the Upper Helderberg, Hamilton, Portage and Chemung Groups.
- pt2 Gastropoda Pteropoda and Cephalopoda of the Upper Helderberg, Hamilton, Portage and Chemung Groups.
- v. 6 Corals and Bryozoa of the Lower and Upper Helderberg and Hamilton Groups.
- v. 7 Trilobites and other Crustacea of the Oriskany, Upper Helderberg, Hamilton, Portage, Chemung and Catskill Groups. Cont. supplement to v.5, pt2. Pteropoda, Cephalopoda and Annelida.
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<sup>a</sup>First use of term.

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<sup>a</sup>First use of term.

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<sup>a</sup>First use of term.

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a First use of term.

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Mather. Metamorphic Limestones. Geol. N. Y. pt1. 1843. p.476-80.

Mather. Primary Rocks. Geol. N. Y. pt1. 1843. p.534-41.

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*See also* names of rock formations.

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<sup>a</sup>First use of term.

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- Roofing slates.** Hall. Note on some Obscure Organisms in the Roofing Slates of Washington County, N. Y. Mus. rep. 39 (for 1885) 1886. p.160, pl.11.
- Mather. Roofing Slate. Geol. rep. 1st dist. (for 1840) 1841. p.94-95. Geol. N. Y. pt1. 1843. p.419-21.
- Nevius. Roofing Slate Quarries of Washington County. Geol. rep. 19 (for 1899) 1901. pl. (phot.) p.135-50. *Same*, Mus. rep. 53 (for 1899) 1901. pl. (phot.) 1:r135-50.
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- Rosendale cement,** *see* Cement.
- Rossie lead mine.** Beck. Rossie Lead Mine. Min. rep. (for 1836) 1837. p.52-54 (ed. 2, p.54-56). Min. N. Y. 1842. p.48-49.
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- Russula.** Peck. Genus Russula. Mus. rep. 23 (for 1869) 1873. p.120-21.
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- Whitlock. Rutile. Mus. bul. 58. 1902. p.75-76.
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- Cushing. Boundary between the Potsdam and Pre-Cambrian Rocks North of the Adirondacks. Geol. rep. 16 (for 1896) 1899. p.5-27. *Same*, Mus. rep. 50 (for 1896) 1899. 2:5-27.
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<sup>a</sup>First use of term in original publication of this article. Science. 1899. new ser. 10:877.

**St Lawrence county** (*continued*)

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Map showing Mining District of Rossie. Geol. rep. 1837-41. v.2. Assembly doc. 1838, no.200.

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*See also* Adirondacks.

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**Saliferous sandrock.** Conrad. Saliferous Sandrock of Eaton. Pal. rep. (for 1837) 1838. p.113.

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**Saliferous system.** Conrad. New Red Sandstone or Saliferous System. Pal. rep. (for 1840) 1841. p.43-44.

- <sup>a</sup>Salina group (Onondaga salt group).** Bishop. Salina Group of Erie County. Geol. rep. 15 (for 1895) 1897. p.311-12, 390. *Same*, Mus. rep. 49 (for 1895) 1898. 2:311-12, 390.
- Clarke, Ruedemann & Luther. Salina Beds on Brockport and Medina Quadrangles. Mus. bul. 52. 1902. p.518-19.
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- Grabau. Salina Beds of Niagara Region. Mus. bul. 45. 1901. p.114-15. *Same*, Mus. rep. 54 (for 1900) 1902. 4:114-15.
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- Ries. Salina Shales. Geol. rep. 15 (for 1895) 1897. p.690-92. *Same*, Mus. rep. 49 (for 1895) 1898. 2:690-92.
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- Sarle. A New Eurypterid Fauna from the Base of the Salina of Western New York. Pal. rep. (for 1902). *In press*.
- See also* Onondaga salt group.
- Salina waterlime, see** Waterlime.
- Salines, see** Salt.
- Salmon river sandstones.** <sup>b</sup>Conrad. Gray Sandstones and Shales of Salmon River. Geol. rep. 3d dist. (for 1836) 1837. p.164-66 (ed. 2, p.166-68). Conrad. Salmon River Sandstones. Pal. rep. (for 1837) 1838. p.113; (for 1838) 1839. p.63; (for 1839) 1840. p.201; (for 1840) 1841. p.31.
- Vanuxem. Salmon River Sandstone. Geol. rep. 3d dist. (for 1839) 1840. p.374. Geol. N. Y. pt3. 1842. p.64.
- See also* Lorraine beds; Oneida conglomerate.
- Salt.** Beck. Brine Springs or Salines of the State of New York. Min. rep. (for 1837) 1838. p.10-40. Min. N. Y. 1842. p.99-127. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.119-23.
- Beck. Brine Springs of Onondaga. Min. rep. (for 1837) 1838. p.24-36. (for 1840) 1841. p.18-23. Min. N. Y. 1842. p.103-8, 110.
- Beck. Muriate of Soda, or Common Salt. Min. rep. (for 1838) 1839. p.17. Min. N. Y. 1842. p.198-200. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.119-23.
- Beck. Montezuma Brine. Min. rep. (for 1840) 1841. p.23. Min. N. Y. 1842. p.108-10.
- Beck. Manufacture. Min. N. Y. 1842. p.111-18.
- Beck. Origin of Brine Springs. Min. N. Y. 1842. p.119-27.
- Bishop. Salt Wells of Western New York. Geol. rep. 5 (for 1885) 1886. p.12-47.
- Bishop. Salt Industry of Central New York. Mus. rep. 45 (for 1891) 1892. p.53-61.

<sup>a</sup>Term introduced by Dana. Manual of Geology. *rev. ed.* 1864, p.246.

<sup>b</sup>First use of term.

**Salt** (*continued*)

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- Geddes. Salt Springs of Onondaga County. Ag. Soc. Trans. 19 (for 1859) 1860. p.266-86.
- Hall. Saline Efflorescences. Geol. rep. 4th dist. (for 1838) 1839. p.336-37; (for 1839) 1840. p.450.
- Hall. Brine Springs or Salines. Geol. N. Y. pt4. 1843. p.44-45, 134-36, 314-15, 664.
- Hall. Salt Springs of Monroe County. Geol. rep. 4th dist. (for 1837) 1838. p.336. Geol. N. Y. pt4. 1843. p.427-28.
- Hall. Salt Springs in Niagara County. Geol. rep. 4th dist. (for 1837) 1838. p.366. Geol. N. Y. pt4. 1843. p.446.
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- Hall. Salt Springs of Wayne County. Geol. rep. 4th dist. (for 1837) 1838. p.317-18. Geol. N. Y. pt4. 1843. p.417-18.
- Luther. Historical Epitome of the Salt Industry. Geol. rep. 15 (for 1895) 1897. p.251-63. *Same*, Mus. rep. 49 (for 1895) 1898. 2:251-63.
- Luther. Geological Map of Salt District. Geol. rep. 16 (for 1896) 1899. facing p.172. *Same*, Mus. rep. 50 (for 1896) 1899. v.2, facing p.172.
- Luther. Brine Springs and Salt Wells of the State of New York, and the Geology of the Salt District. Geol. rep. 16 (for 1896) 1899. p.171-226. pl. (phot.) map. *Same*, Mus. rep. 50 (for 1896) 1899. 2:171-226. pl. (phot.) map.  
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- Mather. Brine Springs, Licks, etc. Geol. rep. 1st dist. (for 1839) 1840. p.233-35.
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- abstract. Mus. bul. 15. 1895. p.545-51. *Same*, Mus. rep. 48 (for 1894) 1895. 1:545-51 (2d paging).
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- San José scale insect.** Felt. San José Scale Insect. Ent. rep. 16 (for 1900) 1901. p.967-88. (Mus. bul. 36). *Same*, Mus. rep. 54 (for 1900) 1902. p.967-88.
- Mus. bul. 46. 1901. p.304-23, 336-42. *Same*, Mus. rep. 54 (for 1900) 1902. 4:304-23, 336-42.
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- Lintner. The San José Scale, and some Other Destructive Scale Insects of New York State. Mus. bul. 13. 1895. p.263-305. 7pl. (phot.) *Same*, Mus. rep. 48 (for 1894) 1895. 1:263-305 (2d paging). 7pl. (phot.)
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- Fitch. Sandy Soils of Washington County. Ag. Soc. Trans. 9 (for 1849) 1850. p.878-82.
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- Hall. Sand and Gravel of Wayne County. Geol. rep. 4th dist. (for 1837) 1838. p.319.
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- Luther. Sands of Onondaga County. Geol. rep. 15 (for 1895) 1897. p.287-88. *Same*, Mus. rep. 49 (for 1895) 1898. 2:287-88.
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- Mather. Sand, Clay and Drift. Geol. rep. 1st dist. (for 1840) 1841. p.71-75.
- Mather. Sand-dunes. Geol. N. Y. pt1. 1843. p.30-32.
- Mather. Drifting Sands. Geol. N. Y. pt1. 1843. p.233-34.
- Nason. Gravels, Sands and Clays of Albany County. Geol. rep. 13 (for 1893) 1894. p.266-77, 286. *Same*, Mus. rep. 47 (for 1893) 1894. p.460-71, 480.
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- See also* Pleistocene.
- Sandstones.** Darton. White Conglomeratic Sandstone; Red Conglomeratic Sandstones of Ulster County. Geol. rep. 13 (for 1893) 1894. p.297-98. *Same*, Mus. rep. 47 (for 1893) 1894. p.491-92.
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- Mather. Alluvial Sandstones and Conglomerates. Geol. rep. 1st dist. (for 1836) 1837. p.86-87 (ed. 2, p.88-89). Geol. N. Y. pt1. 1843. p.122-23, 236.
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- Merrill. Road Materials. Mus. bul. 17. 1897. p.105. *Same*, Mus. r p. 50 (for 1896) 1898. 1:105 (2d paging).
- Mus. bul. 19. 1898. p.205. *Same*, Mus. rep. 51 (for 1897) 1899. 1:205.
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- Smock. Tests; Durability. Causes of Decay. Mus. bul. 10. 1890. p.364-89.
- Vanuxem. Sandstone and Shale. Geol. rep. 4th dist. (for 1836) 1837. p.190-91 (ed. 2, p.192-93).
- See also* Bluestone; Calciferous sandrock; New red sandstone; Quartzite.
- Saranac lakes.** Cushing. Recent Geologic Work in Franklin and St Lawrence Counties. Geol. rep. 20 (for 1900) 1902. p.r25-82. map. *Same*, Mus. rep. 54 (for 1900) 1902. 1:r25-82. map.
- Geologic map of the vicinity of Saranac lakes, 13.5x16cm.
- See also* Adirondacks.
- Saratoga county.** Beck. Mineralogy. Min. rep. (for 1839) 1840. p.95-96.
- Darton. Geology of the Mohawk Valley in Herkimer, Fulton, Montgomery and Saratoga Counties. Geol. rep. 13 (for 1893) 1894. p.407-29. pl. (phot.) *Same*, Mus. rep. 47 (for 1893) 1894. p.601-23. pl. (phot.)
- Darton. Faulted Region. Geol. rep. 14 (for 1894) 1895. p.11-12, 31-53. pl. (phot.) map. *Same*, Mus. rep. 48 (for 1894) 1895. 2:11-12, 31-53. pl. (phot.) map.
- Preliminary geologic map of portions of Herkimer, Fulton, Montgomery, Saratoga and adjacent counties (uncolored) 28.5x16.5cm.
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- Scorpion flies,** *see* Neuropteroid insects.
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*a* First use of term.

**Seneca county** (*continued*)

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*See also* Finger lakes.

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<sup>a</sup>Hall. Seneca Limestone in Seneca County. Geol. rep. 4th dist. (for 1838) 1839. p.293-95. Geol. N. Y. pt4. 1843. p.450-51.

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<sup>a</sup>Vanuxem. Seneca Limestone. Geol. rep. 3d dist. (for 1838) 1839. p.275-78; (for 1839) 1840. p.378-79. Geol. N. Y. pt3. 1842. p.144-45.

Vanuxem. Seneca Limestone in Madison County. Geol. N. Y. pt3. 1842. p.274.

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*See also* Corniferous limestone; Onondaga limestone; Upper Helderberg group.

**Seneca oil**, *see* Petroleum.

**Senecan.** <sup>b</sup>Clarke & Schuchert. Senecan. Mus. mem. 3. 1900. p.11. *Same*, Mus. rep. 53 (for 1899) 1901. 2:11.

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**Serpentine.** Beck. Serpentine. Min. rep. (for 1838) 1839. p.38-41. Min. N. Y. 1842. p.57-58, 272-79. Mus. rep. 3 *rev. ed.* (for 1849) 1850. p.132.

<sup>a</sup>Term used by Hall and Vanuxem in 1839.

<sup>b</sup>First use of term in original publication of this article. Science. 1899. new ser. 10:877.

**Serpentine** (*continued*)

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**Shade trees** (*continued*)

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- Hall. Argillaceous and Calcareous Shales of the Genesee and Niagara Rivers. Geol. rep. 4th dist. (for 1837) 1838. p.297-99.
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- See also* Oneida conglomerate.
- Shawangunk mountain.** Darton. Shawangunk Mountain. Geol. rep. 13 (for 1893) 1894. p.346-58. *Same*, Mus. rep. 47 (for 1893) 1894. p.540-52.
- Shell grit**, *see* Schoharie grit.
- Shell limerock** (Eaton), *see* Onondaga salt group.
- Shell marl**, *see* Marl.
- Shell money**, *see* Wampum.
- Shells**, *see* Mollusca.
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<sup>a</sup>First use of term.

**Sherburne formation** (*continued*)

<sup>a</sup>Vanuxem. Sherburne Flagstone. Geol. rep. 3d dist. (for 1839) 1840. p.381.

*See also* Erie division; Hamilton group; Portage group.

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<sup>b</sup>**Silurian.** Conrad. Organic Remains of Lower Transition or Silurian System. Pal. rep. (for 1837) 1838. p.107-19; (for 1838) 1839. p.57-66; (for 1839) 1840. p.200-7; (for 1840) 1841. p.25-41.

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Map of the Precambrian border in Oneida and Lewis counties, 49.5x16cm.

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- Hunt. Spheue. Mus. rep. 21 (for 1867) 1871. p.86.

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Map of New York showing atlas sheets surveyed by the United States Geological Survey in cooperation with the state engineer and surveyor. Jan. 1, 1900 (un-colored) 22.5x17.5cm.

*See also* Albion quadrangle; Amsterdam quadrangle; Brockport quadrangle; Brooklyn quadrangle; Canandaigua quadrangle; Harlem quadrangle; Hempstead quadrangle; Little Falls quadrangle; Medina quadrangle; Mooers quadrangle; Naples quadrangle; Olean quadrangle; Oyster Bay quadrangle; *also under names of counties*.

**Topography,** *see* Physical geography.

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**Tortoises,** *see* Reptiles.

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*See also* Hudson river group; Utica shale.

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*a* Term first used by Conrad and Vanuxem in 1838.

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**John M. Clarke, State Paleontologist**

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- Columnaria alveolata*. Pal. N. Y. 1847. 1:47.
- inequalis*. Pal. N. Y. 1852. 2:323.
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- corrugatus*. Pal. N. Y. 1888. v.5, pt2, suppl. (= 7), p. 17, 23.
- gregarius*. Pal. N. Y. 1888. v. 5, pt2, suppl. (= 7), p.22.
- Conchidium*. Pal. N. Y. 1894. v.8, pt2, p.231. Geol. rep. 13. 1894. 2:842. Mus. rep. 47. 1894. p.1036.
- crassiplica*. Pal. N. Y. 1894. v.8, pt2, p.369. Geol. rep. 13. 1894. 2:656. Mus. rep. 47. 1894. p.850. Geol. rep. 14. 1895. p.367. Mus. rep. 48. 1895. 2:367.
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*Cranaena*. Pal. N. Y. 1894. v.8, pt2, p.297. Geol. rep. 13. 1894. 2:865. Mus. rep. 47. 1894. p.1059.  
*Crania*. Pal. N. Y. 1867. 4:26; 1892. v.8, pt1, p.145. Geol. rep. 11. 1892. p.260. Mus. rep. 45. 1892. p.576.  
*n.sp.* Pal. N. Y. 1892. v.8, pt1, expl. pl. 4H.  
*agaricina*. Pal. N. Y. 1892. v.8, pt1, p.180. Geol. rep. 14. 1895. p.335. Mus. rep. 48. 1895. 2:335.  
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- Crenipecten*. Pal. N. Y. 1884. v.5, pt1, p.xii; 1885. v.5, pt1, p.lxi. Geol. rep. 1. 1884. p.12.
- amplus*. Mus. rep. 35. 1884. p.277. Pal. N. Y. 1884. v.5, pt1, p.81.
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- Crepipora*. Geol. rep. 14. 1895. p.566. Mus. rep. 48. 1895. 2:566.
- Crinocystites*. Mus. rep. 20. 1867. p.317.
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- Crisinella*. Geol. rep. 2. 1883. expl. pl. 26. Pal. N. Y. 1887. 6:xxv. Geol. rep. 14. 1895. p.526. Mus. rep. 48. 1895. 2:526.
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- (?) *Cruratula*. Geol. rep. 13. 1894. 2:872. Mus. rep. 47. 1894. p.1066.
- Cryphaeus*. Mus. rep. 28. 1879. p.192. Pal. N. Y. 1888. 7:xxxii.
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- alleni*. Geol. rep. 9. 1890. p.60. Mus. rep. 43. 1890. p.262. Mus. mem. 2. 1898. p.144. Geol. rep. 15. 1898. 2:884. Mus. rep. 49. 1898. 3:884.
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- (?) *biloba*. Pal. N. Y. 1892. v.8, pt1, p.350. Geol. rep. 14. 1895. p.350. Mus. rep. 48. 1895. 2:350.
- broadheadi*. Pal. N. Y. 1892. v.8, pt1, p.347. Geol. rep. 14. 1895. p.346. Mus. rep. 48. 1895. 2:346.
- ? *costatula*. Pal. N. Y. 1892. v.8, pt1, p.346. Geol. rep. 14. 1895. p.346. Mus. rep. 48. 1895. 2:346.
- cymbula*. Pal. N. Y. 1892. v.8, pt1, p.348. Geol. rep. 14. 1895. p.348. Mus. rep. 48. 1895. 2:348.
- ruginosa*. Pal. N. Y. 1892. v.8, pt1, p.346. Geol. rep. 14. 1895. p.345. Mus. rep. 48. 1895. 2:345.
- Diamesopora*. Pal. N. Y. 1887. 6:xv, 19. Geol. rep. 14. 1895. p.566. Mus. rep. 48. 1895. 2:566.
- camerata*. Pal. N. Y. 1887. 6:72.
- constricta*. Pal. N. Y. 1887. 6:19.
- dichotoma*. Pal. N. Y. 1852. 2:158.
- dispersa*. Pal. N. Y. 1887. 6:20.
- Dianulites*. Geol. rep. 14. 1895. p.587. Mus. rep. 48. 1895. 2:587.
- Diaphorostoma desmatum*. Mus. mem. 3. 1900. p.29. Mus. rep. 53. 1900. 2:29.
- ventricosum*. Mus. mem. 3. 1900. p.30. Mus. rep. 53. 1900. 2:30.
- Diastoporina*. Geol. rep. 14. 1895. p.595. Mus. rep. 48. 1895. 2:595.
- Dicamara*. Pal. N. Y. 1894. v.8, pt2, p.73. Geol. rep. 13. 1894. 2:772. Mus. rep. 47. 1894. p.966.
- Dicranogmus*. Pal. N. Y. 1888. 7:xli.
- Dicranopora*. Geol. rep. 14. 1895. p.545. Mus. rep. 48. 1895. 2:545.
- Dicranurus*. Pal. rep. 1841. p.48.
- Dictuocrinites*. Pal. rep. 1841. pl.
- Dictuolites beekii*. Pal. N. Y. 1852. 2:6.
- Dictyocrinus*. Pal. N. Y. 1859. 3:135.
- squamifer*. Pal. N. Y. 1859. 3:135.
- Dictyonema*. Pal. N. Y. 1852. 2:174.
- crassum*. Geol. rep. 14. 1895. p.288. Mus. rep. 48. 1895. 2:288.

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- gracilis*. Pal. N. Y. 1852. 2:175.
- pergracilis*. Mus. rep. 24. 1872. p. 181.
- retiformis*. Pal. N. Y. 1852. 2:174. 2:174.
- cf. splendens*. Mus. mem. 3. 1900. p. 64. Mus. rep. 53. 1900. 2:64.
- Dictyophyton*. Mus. rep. 16. 1863. p.87; 35. 1884. p.466.
- abacus*. Mus. rep. 35. 1884. p.474.
- amalthea*. Geol. rep. 9. 1890. p.58. Mus. rep. 43. 1890. p.260.
- annulatum*. Mus. rep. 16. 1863. p.90; 35. 1884. p.472.
- baculum*. Mus. rep. 35. 1884. p.471.
- cinctum*. Mus. rep. 35. 1884. p.472.
- conradi*. Mus. rep. 16. 1863. p.89; 35. 1884. p.471.
- cylindricum*. Mus. rep. 35. 1884. p.475.
- fenestratum*. Mus. rep. 16. 1863. p.90; 35. 1884. p. 469.
- flitextile*. Mus. rep. 16. 1863. p.88; 35. 1884. p.470.
- halli*. Geol. rep. 9. 1890. p.59. Mus. rep. 43. 1890. p.26.
- hamiltonense*. Mus. rep. 35. 1884. p.468.
- irregulare*. Mus. rep. 35. 1884. p.470.
- newberryi*. Mus. rep. 16. 1863. p.87.
- nodosum*. Mus. rep. 16. 1863. p.91; 35. 1884. p.472.
- parallellum*. Mus. rep. 35. 1884. p.471.
- patulum*. Mus. rep. 35. 1884. p.469.
- prismaticum*. Mus. rep. 35. 1884. p.469.
- randalli*. Geol. rep. 9. 1890. p.57. Mus. rep. 43. 1890. p.259.
- redfieldi*. Mus. rep. 16. 1863. p.88.
- ? *redfieldi*. Mus. rep. 35. 1884. p.474.
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- sacculum. Mus. rep. 35. 1884. p.473.  
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*Dictyospongia*. Mus. mem. 2. 1898. p.72; expl. pl. 27. Geol. rep. 15. 1898. 2:812; expl. pl. 27. Mus. rep. 49. 1898 3:812; expl. pl. 27.  
 almondensis. Mus. mem. 2. 1898. p.76. Geol. rep. 15. 1898. 2:816. Mus. rep. 49. 1898. 3:816.  
 ? bacteria. Mus. mem. 2. 1898. p.77. Geol. rep. 15. 1898. 2:817. Mus. rep. 49. 1898. 3:817.  
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 danbyi. Mus. mem. 2. 1898. p.63. Geol. rep. 15. 1898. 2:803. Mus. rep. 49. 1898. 3:803.  
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 ? marcellia. Mus. mem. 2. 1898. p.65. Geol. rep. 15. 1898. 2:805. Mus. rep. 49. 1898. 3:805.  
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- osculata. Mus. mem. 2. 1899. p.167. Geol. rep. 16. 1899. p.359. Mus. rep. 50. 1899. 2:359.  
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 ? stylina. Mus. mem. 2. 1899. p.167. Geol. rep. 16. 1899. p.359. Mus. rep. 50. 1899. 2:359.  
*Dictyothyris*. Geol. rep. 13. 1894. 2:879. Mus. rep. 47. 1894. p.1073.  
*Dielasma*. Pal. N. Y. 1894. v.8, pt2, p.293. Geol. rep. 13. 1894. 2:863. Mus. rep. 47. 1894. p.1057.  
*sp.* ? Pal. N. Y. 1894. v.8, pt2, expl. pl. 81.  
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 obovatum. Geol. rep. 14. 1895. p.372. Mus. rep. 48. 1895. 2:372.  
*Dielasmina*. Pal. N. Y. 1894. v.8, pt2, p.298. Geol. rep. 13. 1894. 2:865. Mus. rep. 47. 1894. p.1059.  
*Dignomia*. Pal. N. Y. 1892. v.8, pt1, p.14. Geol. rep. 11. 1892. p.230. Mus. rep. 45. 1892. p.546.  
*Dikelocephalus*. Mus. rep. 16. 1863. p. 137.  
*sp.* Mus. rep. 16. 1863. p.200, 205. minnesotensis. Mus. rep. 16. 1863. p.138.  
*var.* Mus. rep. 16. 1863. p.141.  
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*Dimerella*. Geol. rep. 13. 1894. 2:833. Mus. rep. 47. 1894. p.1027.  
*Dinarella*. Geol. rep. 13. 1894. 2:859. Mus. rep. 47. 1894. p. 1053.  
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- sp.* Geol. rep. 17. 1899. p. 320,  
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- Dinobolus.* Pal. N. Y. 1892. v.8, pt1,  
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- Dinorthis.* Pal. N. Y. 1892. v.8, pt1,  
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- Dioristella.* Geol. rep. 13. 1894. 2:77.  
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- Diphyphyllum adnatum.* Mus. rep.  
35. 1884. p.458.
- apertum.* Mus. rep. 35. 1884.  
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- Dipleura dekayi.* Geol. N. Y. pt3.  
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- Diplograptus.* Geol. rep. 14. 1895.  
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- foliaceus.* Mus. bul. 49. 1901. p.11.
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- ruedemanni.* Geol. rep. 14. 1895.  
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- coralliferum.* Pal. N. Y. 1852.  
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- Diplopora.* Geol. rep. 14. 1895.  
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- Diplospirella.* Geol. rep. 13. 1894.  
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- Dipterocaris.* Pal. N. Y. 1888. 7:lix.  
*pennae-daedali.* Pal. N. Y. 1888.  
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- sp.?* Pal. N. Y. 1867. 4:21.
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- Discinisca.* Pal. N. Y. 1892. v.8, pt1,  
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- Discinocaris.* Mus. bul. 52. 1902.  
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- Discinolepis.* Pal. N. Y. 1892. v.8,  
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- Discinopsis.* Pal. N. Y. 1892. v.8,  
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- Discites*. Pal. N. Y. 1879. v.5, pt2, p.425.  
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     *peltatum*. Pal. N. Y. 1847. 1:277.  
*Discosorus*. Pal. N. Y. 1852. 2:99.  
     *conoideus*. Pal. N. Y. 1852. 2:99.  
 (?) *Disculina*. Geol. rep. 13. 1894. 2:874. Mus. rep. 47. 1894. p.1068.  
*Dithyrocaris*. Mus. rep. 16. 1863. p.74. Pal. N. Y. 1888. 7:lvii.  
     *belli*. Pal. N. Y. 1888. 7:194.  
     *neptuni*. Mus. rep. 16. 1863. p.75.  
*Ditoecholasma*. Mus. bul. 39. 1900. p.200.  
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*Dolichopterus*. Pal. N. Y. 1859. 3:414.\*  
     *macrocheirus*. Pal. N. Y. 1859. 3:414.\*  
*Douvillina*. Geol. rep. 11. 1892. p.281. Mus. rep. 45. 1892. p.597.  
     Pal. N. Y. 1892. v.8, pt1, p.288.  
*Duncanella rudis*. Geol. rep. 14. 1895. p.299. Mus. rep. 48. 1895. 2:299.  
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     *subnasuta*. Mus. rep. 27. 1875. expl. pl. 11.  
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     *eminens*. Mus. rep. 10. 1857. p.92. Pal. N. Y. 1859. 3:242.  
     *medialis*. Mus. rep. 10. 1857. p.90. Pal. N. Y. 1859. 3:241. Mus. mem. 3. 1900. p.40. Mus. rep. 53. 1900. 2:40.  
     *peculiaris*. Pal. N. Y. 1859. 3:244, 436. Mus. rep. 12. 1859. p.37. Mus. mem. 3. 1900. p.40. Mus. rep. 53. 1900. 2:40.  
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     *condylepis*. Pal. N. Y. 1888. 7:173.  
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*Echinocystites*. Mus. rep. 20. 1867. p.316.  
     *nodosus*. Mus. rep. 20. 1867. p.316.  
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     *birostratum*. Pal. N. Y. 1884. v.5, pt1, p.242. Mus. rep. 35. 1884. p.399.  
 ? *Ectenodictya*. Mus. mem. 2. 1899. p.164. Geol. rep. 16. 1899. p.356. Mus. rep. 50. 1899. 2:356.  
*Ectenodictya*. Mus. rep. 35. 1884. p.466.  
     *burlingtonensis*. Mus. rep. 35. 1884. p.476.  
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- Edaphophyllum*. Mus. bul. 39. 1900. p.221.  
*Edmondia*. Pal. N. Y. 1885. v.5, pt1, p.xxxii.  
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*concinna*. Mus. rep. 20. 1867. p.278.  
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- cf. pustulosus*. Mus. mem. 3. 1900. p.25. Mus. rep. 53. 1900. 2:25.

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- subumbona. Pal. N. Y. 1867. 4:234.  
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   *var.* Pal. N. Y. 1867. 4:206.  
 whitneyi. Pal. N. Y. 1867. 4:417.  
 ziczac. Pal. N. Y. 1867. 4:222.  
*Spiriferina*. Pal. N. Y. 1894. v.8, pt2, p.51. Geol. rep. 13. 1894. 2:764. Mus. rep. 47. 1894. p.958.  
*Spirigera spiriferoides*. Mus. rep. 10. 1857. p.153.  
*Spirigerella*. Pal. N. Y. 1894. v.8, pt2, p.98. Geol. rep. 13. 1894. 2:782. Mus. rep. 47. 1894. p.976.  
*Spirodomus insignis*. Mus. rep. 39. 1886. p.162.  
*Spirophyton*. Mus. rep. 16. 1863. p.78.  
   *cauda-galli*. Mus. rep. 16. 1863. p.79.  
   *crassum*. Mus. rep. 16. 1863. p.83.  
   *typum*. Mus. rep. 16. 1863. p.80.  
   *velum*. Mus. rep. 16. 1863. p.80.  
*Spirorbis* *sp.* Mus. bul. 49. 1901. p.155.  
   *angulatus*. Mus. rep. 15. 1862. p.112.  
   *assimilis*. Mus. mem. 3. 1900. p.26. Mus. rep. 53. 1900. 2:26.  
   *cincinnatiensis*. Pal. N. Y. 1888. v.5, pt2, suppl. (= 7), p.17.  
   *inornatus*. Mus. rep. 28. 1879. p.181.  
   *laxus*. Pal. N. Y. 1859. 3:349.  
*Spondylobolus*. Mus. rep. 16. 1863. p.133. Pal. N. Y. 1892. v.8, pt1, p.85. Geol. rep. 11. 1892. p.245. Mus. rep. 45. 1892. p.561.  
*Spyroceras* *cf. anellus*. Mus. bul. 49. 1901. p.39.

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- bilineatum*. Mus. bul. 49. 1901. p.39.  
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   *antheloidea*. Pal. N. Y. 1847. 1:79.  
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*Stenopora*. Geol. rep. 14. 1895. p.583. Mus. rep. 48. 1895. 2:583.  
*Stenoschisma*. Pal. N. Y. 1894. v.8, pt2, p.187. Geol. rep. 13. 1894. 2:826. Mus. rep. 47. 1894. p.1020.  
*Stephanocrinus*. Pal. N. Y. 1852. 2:212.  
   *angulatus*. Pal. N. Y. 1852. 2:212, 351.  
   *gemmiformis*. Pal. N. Y. 1852. 2:215. Mus. rep. 28. 1879. p.146.  
*Stereolasma*. Mus. bul. 39. 1900. p.205.  
   *rectum*. Mus. bul. 49. 1901. p.154.  
*Stictocella*. Geol. rep. 14. 1895. p.532. Mus. rep. 48. 1895. 2:532.  
*Stictopora*. Pal. N. Y. 1847. 1:73. Mus. rep. 28. 1879. p.122. Pal. N. Y. 1887. 6:xx. Geol. rep. 3. 1884. p.48; 14. 1895. p.605. Mus. rep. 48. 1895. 2:605.  
   *sp.?* Mus. mem. 3. 1900. p.60. Mus. rep. 53. 1900. 2:60.  
   *sp.* Mus. bul. 49. 1901. p.156.  
   ? *acuta*. Pal. N. Y. 1847. 1:74.  
   *alternata*. Pal. N. Y. 1887. v.6, expl. pl.23A.  
   *angularis*. Pal. N. Y. 1887. 6:252. Geol. rep. 10. 1891. p.46. Mus. rep. 44. 1892. p.76.  
   *bifurcata*. Pal. N. Y. 1887. 6:254. Geol. rep. 10. 1891. p.47. Mus. rep. 44. 1892. p.77.  
   *claviformis*. Pal. N. Y. 1887. 6:269.  
   *crassa*. Pal. N. Y. 1852. 2:45.  
   *crenulata*. Geol. rep. 3. 1884. p.44. Pal. N. Y. 1887. 6:252. Geol. rep. 10. 1891. p.45. Mus. rep. 44. 1892. p.75.

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*(s. g.?) dichotoma*. Geol. rep. 3. 1884. p.48.  
*divergens*. Pal. N. Y. 1887. 6:257. Geol. rep. 10. 1891. p.49. Mus. rep. 44. 1892. p.79.  
*elegantula*. Pal. N. Y. 1847. 1:75. Mus. bul. 49. 1901. p.13.  
*fenestrata*. Pal. N. Y. 1847. 1:16.  
*fruticosa*. Pal. N. Y. 1887. 6:92.  
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*glomerata*. Pal. N. Y. 1847. 1:17.  
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*granifera*. Geol. rep. 3. 1884. p.45. Pal. N. Y. 1887. 6:257. Geol. rep. 10. 1891. p.49. Mus. rep. 44. 1892. p.79.  
*incisurata*. Geol. rep. 3. 1884. p.38. Pal. N. Y. 1887. 6:241.  
*incrassata*. Geol. rep. 3. 1884. p.47. Pal. N. Y. 1887. 6:249. Geol. rep. 10. 1891. p.43. Mus. rep. 44. 1892. p.73.  
*indenta*. Geol. rep. 3. 1884. p.40.  
*interstriata*. Geol. rep. 3. 1884. p.45. Pal. N. Y. 1887. 6:259. Geol. rep. 10. 1891. p.51. Mus. rep. 44. 1892. p.81.  
*invertis*. Pal. N. Y. 1887. 6:94.  
*labyrinthica*. Pal. N. Y. 1847. 1:50.  
*limata*. Pal. N. Y. 1887. 6:250. Geol. rep. 10. 1891. p.44. Mus. rep. 44. 1892. p.74.  
*linearis*. Pal. N. Y. 1887. 6:96.  
*lobata*. Pal. N. Y. 1887. 6:256.  
*multipora*. Geol. rep. 3. 1884. p.43.  
*obliqua*. Geol. rep. 3. 1884. p.39.  
*obsoleta*. Pal. N. Y. 1887. 6:37.  
*ovata*. Pal. N. Y. 1887. 6:248. Geol. rep. 10. 1891. p.43. Mus. rep. 44. 1892. p.73.  
*ovatipora*. Pal. N. Y. 1887. 6:93.  
*palmipes*. Geol. rep. 3. 1884. p.41. Pal. N. Y. 1887. 6:255. Geol. rep. 10. 1891. p.48. Mus. rep. 44. 1892. p.78.

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- papillosa*. Mus. rep. 32. 1879. p.161. Pal. N. Y. 1887. 6:37.  
*perarcta*. Pal. N. Y. 1887. 6:96.  
*permarginata*. Geol. rep. 3. 1884. p.46. Pal. N. Y. 1887. 6:258. Geol. rep. 10. 1891. p.50. Mus. rep. 44. 1892. p.80.  
*punctipora*. Pal. N. Y. 1852. 2:157.  
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*recta*. Pal. N. Y. 1887. 6:253. Geol. rep. 10. 1891. p.47. Mus. rep. 44. 1892. p.77.  
*rectalineae*. Pal. N. Y. 1887. 6:245. Geol. rep. 10. 1891. p.40. Mus. rep. 44. 1892. p.70.  
*rectilatera*. Geol. rep. 5. 1886. expl. pl.27.  
*recubans*. Pal. N. Y. 1887. 6:260. Geol. rep. 10. 1891. p.51. Mus. rep. 44. 1892. p.81.  
*rhomboidea*. Pal. N. Y. 1887. 6:95.  
*rigida*. Pal. N. Y. 1887. 6:91.  
*scitula*. Pal. N. Y. 1887. v.6, expl. pl.61.  
*?scutulata*. Geol. rep. 3. 1884. p.47.  
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*similis*. Mus. rep. 28. 1879. p.122.  
*sinuosa*. Geol. rep. 3. 1884. p.42. Pal. N. Y. 1887. 6:247. Geol. rep. 10. 1891. p.42. Mus. rep. 44. 1892. p.72.  
*striata*. Pal. N. Y. 1887. 6:246. Geol. rep. 10. 1891. p.42. Mus. rep. 44. 1892. p.72.  
*subcarinata*. Pal. N. Y. 1887. 6:261. Geol. rep. 10. 1891. p.52. Mus. rep. 44. 1892. p.82.  
*subrigida*. Geol. rep. 3. 1884. p.43. Pal. N. Y. 1887. 6:251. Geol. rep. 10. 1891. p.45. Mus. rep. 44. 1892. p.75.  
*trilineata*. Pal. N. Y. 1887. 6:243.  
*?triserialis*. Geol. rep. 2. 1883. expl. pl.25.

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- tumulosa*. Pal. N. Y. 1887. 6:246.  
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- vermicula*. Geol. rep. 5. 1886.  
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- Stictoporella*. Geol. rep. 14. 1895.  
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- Stictoporina*. Pal. N. Y. 1887. 6:xx.  
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- Stomatopora*. Geol. rep. 14. 1895.  
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- ? *alternata*. Mus. rep. 23. 1873.  
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- erratica*. Mus. rep. 23. 1873.  
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- Straparollus*. Pal. N. Y. 1879. v.5,  
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- mopsus*. Mus. rep. 20. 1867. p.342.
- Streblotrypa*. Geol. rep. 14. 1895.  
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- Streptelasma*. Pal. N. Y. 1887. 6:xi.  
*aequidistans*. Mus. rep. 35. 1884.  
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- ampliatum*. Mus. rep. 35. 1884.  
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- crateriforme*. Mus. rep. 35. 1884.  
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- dissimile*. Mus. rep. 35. 1884.  
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- involutum*. Mus. rep. 35. 1884.  
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- stricta*. Mus. rep. 26. 1874. p.114.
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- tenue*. Mus. rep. 35. 1884. p.421.
- ungula*. Ill. Dev. Foss. Corals.  
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- Streptis*. Pal. N. Y. 1892. v.8, pt1,  
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- waldronensis*. Mus. mem. 1. 1889.  
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- Streptoplasma*. Pal. N. Y. 1847.  
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- Streptorhynchus*. Mus. rep. 16.  
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ulrichi. Pal. N. Y. 1892. v.8, pt1, p.351. Geol. rep. 14. 1895. p.350. Mus. rep. 48. 1895. 2:350.  
Striatopora. Pal. N. Y. 1852. 2:156; 1887. 6:xii.  
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     *var.* nervosa. Pal. N. Y. 1867.  
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